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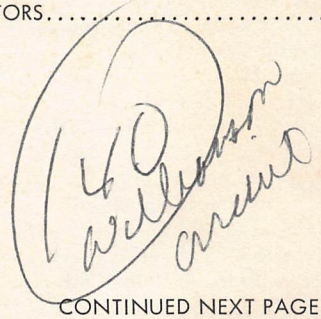

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Transistor Transformers

LISTED IN ORDER OF THE TURNS RATIO

To simplify the selection of the proper transistor transformer for Military or Commercial applications use the following four page index.

Listed in order of the turns ratio this index will supply — at a glance — information as to the transformers available in the turns ratio and impedance range required. Complete information on each transformer is then listed on the page numbers shown to the right of each Part Number.

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27A65		1:1	400 To 500CT	400 To 500CT*	18
MI-T241		1:1	400 To 500CT	400 To 500CT*	15
27A41		1:1	500CT*	500CT*	20
	25A46	1:1	500CT*	500CT*	21
	25S10	1:1	500CT	500CT*	21
27A46		1:1	500CT	500CT*	20
	TR-240	1:1	500CT	500CT*	7
27A92		1:1	500CT	500CT*	20
	TR-37	1:1	500CT	500CT	7
	TR-1	1:1	500CT	500CT	7
	TR-233	1:1	500CT	500CT	7
	TR-311	1:1	500CT	500CT	7-10
27A132		1:1	500CT	500CT	20
	25A63	1:1:1	600CT*	600CT* 600CT*	21
27S111		1:1	600CT	600CT	18
	25A104	1:1	600/300/250CT/110/50*	600CT*	21
	25A112	1:1	600/250/50	600/250/50	21
GEO-80		1:1	1,000	1,000CT*	20
MI-T247		1:1	9,000 To 10,000CT	9,000 To 10,000CT	16
27S110		1:1	10,000CT	10,000CT	18
	TR-230	1:1	10,000CT	10,000CT	8
	25A42	1:1	10,000CT	10,000CT	21
MI-T236		1:1	10,000 To 12,000CT	10,000 To 12,000CT	16
	TR-216	1:1	10,000 To 12,000CT	10,000 To 12,000CT	8
27A59		1:1	10,000 To 12,000CT	10,000 To 12,000CT	19
	25A124	1:1†	65,000	65,000	21
	TR-38	1.09:1	6,000	5,000CT	8
27S22		1.1:1	500CT	600CT	20
27S47		1.1:1	500CT	600CT	19
	TR-212	1.1:1	500CT	600CT	7
27S100		1.1:1	500CT	600	18
MI-T220		1.1:1	500CT	600	15
TR-121		1.1:1	500CT‡	600	17
27S30		1.12:1	20CT	4/8/16	20
TR-249		1.15:1	2000	1500CT	7
	TR-164	1.23:1†	12	3.5/8	5
	25S81	1.23:1	24CT	16CT*	21
27S101		1.23:1	900CT	600	18
MI-T221		1.23:1	900CT	600	15
TR-123		1.23:1	900CT	600	17
	TR-2	1.23:1	5,000CT	7,500CT	8
	TR-312	1.23:1	5,000CT	7,500CT	10
	TR-39	1.24:1	4,000	2,600CT	8
	TR-68	1.29:1	5,000	3,000CT	8
	TR-306	1.34:1	20	36CT	9
	TR-58	1.41:1	32CT	3.2/8/16	5
	TR-194	1.41:1	200CT	400CT	7
	TR-301	1.41:1	200CT	400CT	7
27D36		1.41:1	200CT	400CT*	20
MI-T219		1.41:1	300CT	600	15
27S99		1.41:1	300CT	600	18
TR-122		1.41:1	300CT‡	600	17
	TR-3	1.41:1	5,000CT	10,000CT	8
	TR-313	1.41:1	5,000CT	10,000CT	10
	TR-160	1.5:1†	9	3.5	5
	TR-161	1.5:1	9	3.5	5
	TR-162	1.5:1†	9	3.5	5
	TR-163	1.5:1†	9	3.5	5
	TR-165	1.5:1†	18	6-8§	5
	TR-300	1.58:1	20CT	8	5
27S116		1.58:1	20CT	8	20
	TR-225	1.58:1	80 To 100CT	32 To 40CT*	7
27A68		1.58:1	80 To 100CT	32 To 40CT*	18
MI-T244		1.58:1	80 To 100CT	32 To 40CT*	15
	25A49	1.58:1	100CT*	40CT*	21
	25A71	1.58:1	100CT*	40CT*	21
	25A106	1.58:1	100CT*	40CT*	21
	TR-232	1.58:1	500CT	200CT	7
	TR-66	1.58:1	500CT	200CT	7
GEO-81		1.58:1	1,000CT	2,500CT	20
GEO-82		1.58:1	1,000CT	2,500CT	20
	TR-231	1.58:1	1,500CT	600CT*	7
	TR-237	1.58:1	1,500CT	600CT*	7
27S23		1.58:1	1,500CT	600CT	20
27S48		1.58:1	1,500CT	600CT	19
	TR-213	1.58:1	1,500CT	600CT	7
TR-124		1.58:1	1,500CT‡	600	17
27S102		1.58:1	1,500CT	600	18
MI-T222		1.58:1	1,500CT	600	15
MI-T252		1.58:1	1,500CT	600	15
	25A41	1.58:1	10,000CT*	4,000CT*	21
	TR-199	1.63:1	6CT	4/8/16	5
	TR-169	1.66:1†	22	8-10	5
	TR-191	1.73:1	24CT	4/8	5
	TR-196	1.73:1	48CT	8/16	5
27S115		1.73:1	48CT	8/16	20
	TR-61	1.73:1	48CT	3.2/8/16	5
	TR-60	1.73:1	48CT	3.2/8/16	5
	TR-110	1.73:1	48CT	4/8/16	5
27S29		1.73:1	48CT	4/8/16	20
	25S14	1.73:1	48CT	8/16CT*	5
	25S04	1.73:1	1,500CT	500CT*	21
27S35		1.73:1	1,500CT	500CT*	20
	TR-4	1.73:1	1,500	500CT	7
	TR-314	1.73:1	1,500	500CT	10
	TR-251	1.73:1	3,000CT	1,000CT	8
	TR-5	1.81:1	490CT	150CT	7
	TR-315	1.81:1	490CT	150CT	10

* Split C.T. Winding ‡ Balanced Windings † Autoformer

§ Also has feed back winding

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Transistor Transformers

LISTED IN ORDER OF THE TURNS RATIO

Part No. Military	Part No. Commercial	Overall Turns Ratio	Impedance Wdg. 1	Impedance Wdg. 2	See Page No.
	25A69	1.82:1	400 To 500CT*	120 To 150CT*	21
27A42		1.82:1	500CT*	150CT*	20
27A47		1.82:1	500CT*	150CT*	20
27A66		1.82:1	500CT	150CT*	18
MI-T242		1.82:1	500CT	150CT*	15
	TR-223	1.82:1	500CT	150CT*	7
	TR-248	1.82:1	500CT	150CT	7
	TR-241	1.83:1	600CT	2,000CT*	7
27A93		1.83:1	600CT	2,000CT*	20
27A38		1.83:1	600CT*	2,000CT*	20
	25A62	1.83:1	600CT*	2,000CT*	21
	25S74	1.83:1	2,000CT	600CT*	21
	TR-6	1.83:1	10,000	3,000CT	8
	TR-316	1.83:1	10,000	3,000CT	10
	TR-303	2:1	30	120CT*	7
	TR-65	2:1	100	200CT	7
27A131		2:1	125	500CT	20
	25A105	2:1	500CT*	2,000CT*	21
	TR-263	2:1	2,000CT	500CT	7
	TR-250	2:1	2,000CT	8,000CT	7
MI-T237		2:1	2,000 To 2,500CT	8,000 To 10,000CT*	16
	TR-350	2:1	8,000	2,000CT	8
	TR-254	2:1	16,000	4,000	8
	TR-247	2.24:1	400CT	2,000CT	7
	25A107	2.24:1	500CT*	100CT*	21
27A117		2.24:1	1,000	200CT	20
	TR-238	2.24:1	1,000	200CT	7
	25A108	2.24:1	1,000	200CT*	21
27A109		2.24:1	10,000CT*	2,000CT*	18
27A47		2.24:1	10,000CT*	2,000CT*	20
	25A64	2.24:1	10,000CT*	2,000CT*	21
	25A40	2.24:1	10,000CT*	2,000CT*	21
27A33		2.24:1	10,000CT*	2,000CT*	20
	TR-229	2.24:1	10,000CT	2,000CT	8
	TR-235	2.24:1	10,000CT	2,000CT	8
27A19		2.24:1	10,000CT	2,000CT	20
27A89		2.24:1	10,000CT	2,000CT	20
27D38		2.24:1	10,000CT	2,000CT	18
	TR-7	2.24:1	10,000	2,000CT‡	8
	TR-40	2.24:1	10,000	2,000CT	8
	TR-175	2.24:1	10,000	2,000CT	8
	TR-201	2.24:1	10,000	2,000CT	8
	TR-219	2.24:1	10,000	2,000CT	8
	TR-125	2.24:1	10,000	2,000CT‡	17
	TR-264	2.24:1	10,000	2,000CT	8
	TR-317	2.24:1	10,000	2,000CT	10
27A53		2.24:1	10,000	2,000CT	19
27A64		2.24:1	10,000	2,000CT	18
27A129		2.24:1	10,000	2,000	20
MI-T211		2.24:1	10,000 To 12,000	2,000 To 2,500CT	16
MI-T238		2.24:1	10,000 To 12,000	2,000 To 2,500CT*	16
	TR-348	2.45:1	48CT	8	5
	TR-8	2.45:1	48CT	4/8	5
	TR-318	2.45:1	48CT	4/8	5-10
	TR-9	2.45:1	5,000	30,000CT	8
	TR-319	2.45:1	5,000	30,000CT	10
	TR-166	2.5:1†	22	3.5	5
	TR-167	2.5:1	22	3.5	5
	TR-168	2.5:1†	22	3.5	5
	TR-304	2.5:1	25	4	5
	TR-62	2.5:1	100	3.2/8/16	5
	TR-111	2.5:1	100CT	4/8/16	5
	TR-63	2.5:1	100CT	3.2/8/16	5
TR-130		2.58:1	10,000CT‡	1,500CT‡	17
27A112		2.58:1	10,000CT	1,500CT	18
MI-T225		2.58:1	10,000 To 12,000CT	1,500 To 1,800CT	16
27A58		2.58:1	10,000 To 12,000CT	1,500 To 1,800CT	19
	TR-215	2.58:1	10,000 To 12,000CT	1,500 To 1,800CT	8
	TR-57	2.83:1	32CT	1.6/4	5
TR-126		2.83:1	400	50	17
GEO-78		2.83:1	1,000CT*	125CT*	20
GEO-79		2.83:1	1,000CT*	125CT*	20
	TR-176	2.83:1	2,000	250	7
TR-127		2.89:1	10,000	1,200CT‡	17
27A18		2.89:1	10,000CT	1,200CT	20
27D37		2.89:1	10,000CT	1,200CT	18
MI-T210		2.89:1	10,000 To 12,500	1,200 To 1,500CT	16
	TR-171	3:1	30CT	3.5/1	5
	TR-170	3:1†	30	3.5	5
	TR-10	3:1	5,000CT	45,000	8
	TR-320	3:1	5,000CT	45,000	10
	TR-305	3.16:1	50/100	10	7-9
	TR-12	3.16:1	100CT	10CT	7
	TR-296	3.16:1	100CT	10CT	7
	TR-322	3.16:1	100CT	10CT	10
27A114		3.16:1	100CT	10CT	20
	TR-349	3.16:1	100	10CT	7
27A115		3.16:1	100	1,000CT	20
	TR-257	3.16:1	100	1,000CT	7
	TR-112	3.16:1	160	4/8/16	5
	TR-246	3.16:1	200CT	2,000CT	7
	TR-224	3.16:1	400 To 500CT	40 To 50CT*	7
MI-T243		3.16:1	400 To 500CT	40 To 50CT*	15
27A67		3.16:1	400 To 500CT	40 To 50CT	18
	25A48	3.16:1	500CT*	50CT*	21
	25A70	3.16:1	500CT*	50CT*	21
	TR-11	3.16:1	500CT	50	7
	TR-321	3.16:1	500CT	50	10
27S21		3.16:1	500CT	50	20
TR-128		3.16:1	500	50	17
27S88		3.16:1	500	50	18
	TR-41	3.16:1	500	50	7
	TR-204	3.16:1	500 To 600	50 To 60	7
27S42		3.16:1	500 To 600	50 To 60	19
MI-T202		3.16:1	500 To 600	50 To 60	15
	TR-259	3.16:1	500CT	5,000CT	7
27A116		3.16:1	500CT	5,000CT	20
	TR-177	3.16:1	1,000	100	7
	TR-260	3.16:1	2,000CT	200CT	7
27A118		3.16:1	2,000	200CT	20
	TR-266	3.16:1	5,000CT	50,000CT	8
	TR-261	3.16:1	20,000CT	2,000CT	8
	TR-42	3.16:1	20,000	2,000CT	8
	TR-172	3.4:1†	40	3.5	5
	TR-59	3.46:1	48CT	1.6/4	5
	TR-193	3.54:1	100CT	4/8	5
	TR-43	3.54:1	125CT	10	5
27S93		3.54:1	150CT	12	18
MI-T212		3.54:1	150 To 200CT	12 To 16	15
TR-129		3.54:1	200CT	16	17
	TR-173	3.58:1	45CT	3.5	5
	TR-67	3.94:1	125CT	8	5
	TR-265	3.94:1	250CT	4/8/16	5
MI-T245		4:1	1,000 To 1,250CT	16,000 To 20,000CT*	15
	TR-108	4:1	5,000CT	80,000CT	8
	TR-308	4:1	5,000CT	80,000CT	10
	TR-13	4:1	5,000CT	80,000	8
	TR-323	4:1	5,000CT	80,000	10
	TR-227	4.08:1	20,000	100/600 1200	8

* Split C.T. Winding ‡ Balanced Windings † Autoformer

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Transistor Transformers

LISTED IN ORDER OF THE TURNS RATIO

Part No. Military	Part No. Commercial	Overall Turns Ratio	Impedance Wdg. 1	Impedance Wdg. 2	See Page No.
27A98		4.08:1	20,000	100/600/1200	20
	TR-106	4.08:1	20,000CT	1,200	8
	TR-14	4.08:1	20,000	1,200	8
	TR-44	4.08:1	20,000	1,200	8
	TR-324	4.08:1	20,000	1,200	10
	TR-243	4.08:1	50,000	3,000CT	9
	TR-21	4.47:1	160CT	4/8	5
	TR-331	4.47:1	160CT	4/8	10
	TR-46	4.47:1	200CT	10	5
	TR-15	4.47:1	300CT	15	5-7
	TR-325	4.47:1	300CT	15	10
	TR-45	4.47:1	1,000	50	7
	TR-234	4.47:1	1,000	50	7
27S87		4.47:1	1,000	50	20
27S89		4.47:1	1,000	50	18
TR-131		4.47:1	1,000	50	17
MI-T203		4.47:1	1,000 To 1,200	50 To 60	15
27S43		4.47:1	1,000 To 1,200	50 To 60	19
	TR-205	4.47:1	1,000 To 1,200	50 To 60	7
	25A68	4.47:1	10,000CT*	500CT*	21
	25A43	4.47:1	10,000CT*	500CT*	21
27A39		4.47:1	10,000CT	500CT*	20
27D39		4.47:1	10,000CT	500CT	18
TR-133		4.47:1	10,000CT‡	500CT‡	17
MI-T209		4.47:1	10,000 To 12,000	500 To 600CT	16
MI-T251		4.47:1	10,000 To 12,000	500 To 600CT	15
	TR-210	4.47:1	10,000 To 12,500	500 To 600CT	8
27S45		4.47:1	10,000 To 12,500	500 To 600CT	19
MI-T239		4.47:1	20,000 To 30,000CT	1,000 To 1,500CT*	16
TR-132	TR-120	4.47:1	20,000	1,000	17
	TR-178	4.6:1	950	45CT	7
	TR-351	4.65:1	6,000	280CT	8
	TR-192	5:1	200CT	4/8	5
27S94		5:1	300CT	12	18
MI-T213		5:1	300 To 400CT	12 To 16	15
TR-136		5:1	400CT*	16	17
	TR-16	5:1	400CT	16	5
	TR-326	5:1	400CT	16	10
	TR-113	5:1	400CT	4/8/16	5
	TR-179	5:1	1,000	40	7
	TR-253	5:1	5,000	200CT	8
27S83		5:1	15,000CT	600CT*	20
27S85		5:1	15,000CT	600CT*	20
27A35		5:1	20,000CT*	800CT*	20
	TR-17	5:1	20,000	800CT	8
	TR-256	5:1	20,000	800CT	8
	TR-327	5:1	20,000	800CT	10
	TR-208	5:1	20,000 To 30,000	800 To 1,200CT	8
27A56		5:1	20,000 To 30,000	800 To 1,200CT	19
MI-T223		5:1	20,000 To 30,000CT	800 To 1,200CT	16
MI-T253		5:1	20,000 To 30,000CT	800 To 1,200CT	15
27A52		5:1	20,000 To 30,000	800 To 1,200	19
27A63		5:1	20,000 To 30,000	800 To 1,200	18
MI-T201		5:1	20,000 To 30,000	800 To 1,200	16
	TR-200	5:1	20,000 To 30,000	800 To 1,200	8
	TR-218	5:1	20,000 To 30,000	800 To 1,200	8
27A111		5:1	25,000CT	1,000CT	18
27A17		5:1	25,000	1,000	20
27A110		5:1	25,000	1,000	18
TR-135		5:1	30,000CT‡	1,200CT‡	17
TR-134		5:1	30,000	1,200	17
	TR-101	5.4:1	350CT	4/12	5
	TR-47	5.46:1	300CT	10	5
	TR-18	5.52:1	500CT	16.4	6
	TR-328	5.52:1	500CT	16.4	10
	TR-102	5.6:1	500CT	4/8/16	6
	TR-114	5.6:1	500CT	4/8/16	6
	25S67	5.6:1	500CT*	16CT*	5-21
	25S11	5.6:1	500CT	16CT*	6
27S26		5.6:1	500CT	16CT*	20
	TR-103	5.65:1	600CT	4/8/16	6
	TR-226	5.73:1	30/12/4	1,000	7
27A96		5.73:1	30/12/4	1,000	20
	TR-48	5.75:1	20,000	600	8
	TR-245	5.78:1	100,000	3,000CT	9
27A130		5.8:1	600/50	20,000	20
	TR-174	6:1	360CT	10	5
	TR-182	6:1	720	20	7
	TR-19	6.04:1	400CT	11	5
	TR-329	6.04:1	400CT	11	10
MI-T229		6.12:1	120 To 150CT	3.2 To 4	15
27S103		6.12:1	120CT	3.2	18
	TR-20	6.22:1	650CT	16.8	6
	TR-330	6.22:1	650CT	16.8	10
	25A125	6.3:1	24,000	600	21
	TR-180	6.4:1	660	16	7
	TR-115	6.63:1	700CT	4/8/16	6
	TR-104	6.75:1	825CT	4/8/16	6
	TR-22	7.07:1	400CT	4/8	5
	TR-332	7.07:1	400CT	4/8	10
	TR-49	7.07:1	500CT	10	5
27S95		7.07:1	600CT	12	18
MI-T214		7.07:1	600 To 800CT	12 To 16	15
TR-137		7.07:1	800CT‡	16	17
	TR-181	7.07:1	1,500	30	7
27S86		7.07:1	10,000	200	20
	TR-23	7.07:1	10,000	200CT	8
	TR-333	7.07:1	10,000	200CT	10
	TR-207	7.07:1	10,000CT	200CT	8
27A55		7.07:1	10,000CT	200CT	19
27A28		7.07:1	10,000CT*	200CT*	20
	TR-207	7.07:1	25,000CT	500CT	8
	TR-228	7.07:1	25,000CT	500CT	8
27A55		7.07:1	25,000CT	500CT	19
	25A67	7.07:1	25,000CT*	500CT*	21
27A108		7.07:1	50,000CT	1,000CT	18
	TR-183	7.5:1	2,250	40	7
27A113		7.75:1	600CT	10	20
	TR-295	7.75:1	600CT	10	7
	TR-50	7.9:1	200CT	3.2	5
	TR-116	7.9:1	1,000	4/8/16	6
27S113		7.9:1	1,000	4/8/16	20
	TR-184	8:1	960	15	7
MI-T215		8.15:1	800 To 1,070CT	12 To 16	15

* Split C.T. Winding ‡ Balanced Windings

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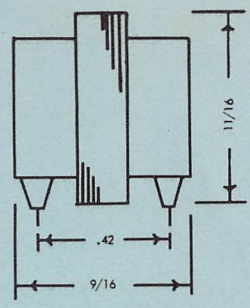
Transistor Transformers

LISTED IN ORDER OF THE TURNS RATIO

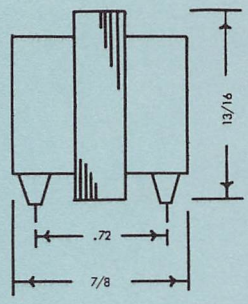
Part No. Military	Part No. Commercial	Overall Turns Ratio	Impedance Wdg. 1	Impedance Wdg. 2	See Page No.
TR-138		8.15:1	1,070CT	16	17
	TR-24	8.17:1	100,000	1,500CT	9
	TR-334	8.17:1	100,000	1,500CT	10
	TR-25	8.66:1	15,000	200CT	8
	TR-335	8.66:1	15,000	200CT	10
	TR-262	8.66:1	15,000	200CT	8
27S96		9.1:1	1,000CT	12	18
MI-T216		9.1:1	1,000 To 1,330CT	12 To 16	15
TR-139		9.1:1	1,330CT‡	16	17
	TR-236	9.1:1	50,000CT	600CT*	9
27S84		9.1:1	50,000CT	600CT*	20
	TR-51	9.65:1	300CT	3.2	5
	TR-105	9.8:1	1,250	4/12	6
27S104		10:1	320CT	3.2	18
MI-T230		10:1	320 To 400CT	3.2 To 4	15
	TR-186	10:1	1,000	10	7
	TR-185	10:1	2,000	20	7
MI-T240		10:1	40,000 To 50,000CT	400 To 500CT	16
27A60		10:1	40,000 To 50,000CT	400 To 500CT*	19
	TR-217	10:1	40,000 To 50,000CT	400 To 500CT	9
	25A44	10:1	50,000CT	500CT*	21
27A40		10:1	50,000CT	500CT*	20
	TR-26	10:1	50,000	500CT	9
	TR-242	10:1	50,000	500CT	9
	TR-336	10:1	50,000	500CT	10
	25S06	11.2:1	400 To 500CT	3.2 To 4	5-21
27S97		11.2:1	1,500CT	12	18
MI-1217		11.2:1	1,500 To 2,000CT	12 To 16	15
TR-140		11.2:1	2,000CT ‡	16	17
	TR-258	11.2:1	2,000CT	4/8/16	6
27S114		11.2:1	2,000CT	4/8/16	20
	TR-107	11.8:1	2,500	4/16	6
	TR-52	11.8:1	7,000	50	8
	TR-27	12.5:1	500CT	3.2	5
	TR-53	12.5:1	500CT	3.2	5
	TR-220	12.5:1	500CT	3.2	6
	TR-337	12.5:1	500CT	3.2	10
27S52		12.5:1	500CT	3.2	18
	TR-117	12.5:1	2,500	4/8/16	5
TR-141		13.6:1	600	3.2	17
MI-T204		13.6:1	600	3.2	15
27S90		13.6:1	600	3.2	18
27S105		13.6:1	600CT	3.2	18
	TR-197	13.7:1	32CT	3000/4000/6000	9
	TR-118	13.7:1	3,000	4/8/16	6
MI-T231		14.1:1	640 To 800CT	3.2 To 4	15
MI-T246		14.1:1	100,000CT	500CT	16
MI-T224		14.1:1	200,000CT	1,000CT	16
	TR-119	14.1:1	200,000CT	1,000CT	9
TR-143		14.1:1	200,000CT	1,000CT	17
	TR-214	14.1:1	200,000CT	1,000CT	9
27A57		14.1:1	200,000CT	1,000CT	19
27A107		14.1:1	200,000CT	1,000CT	18
	TR-28	14.1:1	200,000	1,000	9
	TR-54	14.1:1	200,000	1,000	9
TR-142		14.1:1	200,000	1,000	17
	TR-206	14.1:1	200,000	1,000	9
	TR-267	14.1:1	200,000	1,000	9
	TR-338	14.1:1	200,000	1,000	10
27A54		14.1:1	200,000	1,000	19
27A109		14.1:1	200,000	1,000	18
	TR-187	15:1	4,500	20	8
	TR-29	15.6:1	825CT	3.4	6
	TR-339	15.6:1	825CT	3.4	10
MI-T232		15.8:1	800 To 1,000CT	3.2 To 4	15
27S106		15.8:1	800CT	3.2	18
	25S05	15.8:1	2,000 To 4,000CT	8 To 16	6-21
	TR-221	15.8:1	2,000 To 4,000CT	8 To 16	6
27S36		15.8:1	2,000 To 4,000CT	8 To 16	20
27S53		15.8:1	2,000 To 4,000CT	8 To 16	18
	TR-252	15.8:1	4,000CT	4/8/16	6
	TR-30	15.8:1	50,000	200CT	9
	TR-340	15.8:1	50,000	200CT	10
MI-T233		18.2:1	1,060 To 1,330CT	3.2 To 4	15
	TR-188	18.4:1	3,400	10	8
TR-144		19.3:1	1,200	3.2	17
MI-T205		19.3:1	1,200	3.2	15
27S91		19.3:1	1,200	3.2	18
27S107		19.3:1	1,200CT	3.2	18
27S44		19.3:1	1,200 To 1,500	3.2 To 4	19
	TR-209	19.3:1	1,200 To 1,500	3.2 To 4	6
	TR-189	20:1	8,000	20	8
	TR-31	20:1	40,000	100	8
	TR-341	20:1	40,000	100	10
	TR-190	22:1	5,000	50	8
27S108		22.3:1	1,600CT	3.2	18
MI-T234		22.3:1	1,600 To 2,000CT	3.2 To 4	16
	TR-244	22.4:1	10,000	200CT	9
27S98		25:1	7,500CT	12	18
MI-T218		25:1	7,500 To 10,000CT	12 To 16	16
	TR-109	25:1	10,000CT	4/8/16	6
TR-145		25:1	10,000CT‡	16	17
	TR-202	25:1	10,000	16	6
27S40		25:1	10,000	16	19
	TR-32	25.5:1	9,800	15	6
	TR-239	25.5:1	9,800	15	6
	TR-299	25.5:1	9,800	15	6
	TR-342	25.5:1	9,800	15	10
27S112		25.5:1	9,800	15	20
	TR-307	30.6:1	8CT	5000/7000	9
	TR-198	31.6:1	6CT	3000/4000/6000	9
	TR-33	35.4:1	250,000	200CT	9
	TR-343	35.4:1	250,000	200CT	10
	TR-34	40.8:1	50,000	30CT	9
	TR-344	40.8:1	50,000	30CT	10
	TR-35	44.7:1	100,000	50	9
	TR-345	44.7:1	100,000	50	10
	TR-55	44.7:1	100,000	50	9
27A135		44.7:1	100,000	50	20
	TR-211	48.5:1	7,500 To 9,400CT	3.2 To 4	6
27S46		48.5:1	7,500 To 9,400CT	3.2 To 4	19
27S109		50:1	8,000CT	3.2	18
MI-T235		50:1	8,000 To 10,000CT	3.2 To 4	16
	TR-268	50:1	10,000	4	6
	TR-255	50:1	20,000	4/8	6
	TR-36	50:1	500,000	200CT	9
	TR-346	50:1	500,000	200CT	10
	TR-203	56:1	10,000	3.2	6
27S41		56:1	10,000	3.2	19
TR-146		56:1	10,000	3.2	17
27S92		56:1	10,000	3.2	18
MI-T206		56:1	10,000	3.2	16

* Split C.T. Winding ‡ Balanced Windings

CONTINUED NEXT PAGE



PCT



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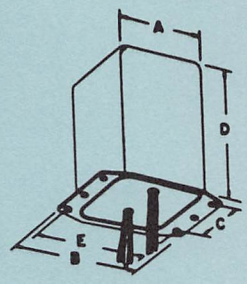

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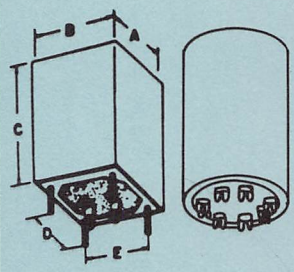

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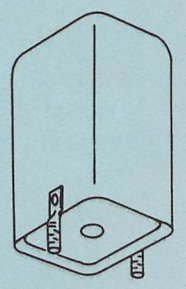
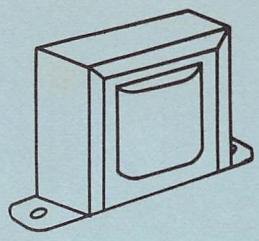


XAV

TAJ

SEE PAGE 64 FOR COMPLETE TAJ LISTING



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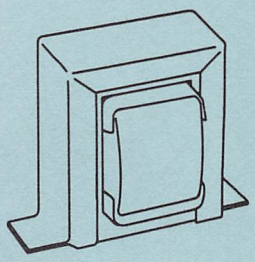

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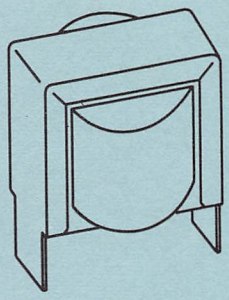

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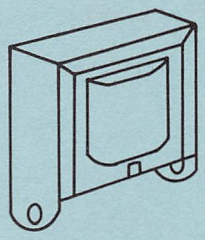

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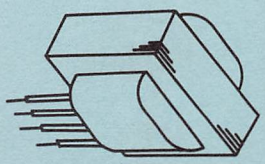

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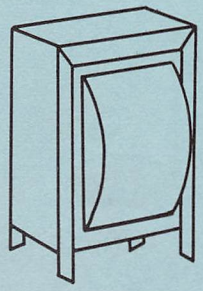


BCV

Output-Transistor To Voice Coil

LISTED IN ORDER OF THE PRIMARY IMPEDANCE

MILITARY — ENCASED TRANSISTOR TRANSFORMERS LISTED ON PAGE 20
MILITARY — MOLDED TRANSISTOR TRANSFORMERS LISTED ON PAGES 15, 16, 17 & 18

Part No.	Impedance		Primary MADC	Resistance		Power In Watts	Mtg. Type	Mtg. Centers	Dimensions		
	Primary	Secondary		Primary	Secondary				H	W	D
TR-199	6CT	4/8/16	5A	.17	.24	40	GGV	2 1/2 x 2 1/4	3 7/8	3 9/32	3 1/8
TR-161	9	3.5	750	1.1	.7	5	BAH	2	1 3/8	2 7/16	1 3/8
TR-160	9 §	3.5	750	1.9	1.2	8	BCH-1	1 5/8 x 11/16	1 5/8	2	1 1/4
TR-162	9	3.5	750	1.3	.48	8	BAH	2 3/8	1 5/8	2 7/8	1 3/8
TR-163	9 §	3.5	920	1.5	1.0	10	BCH-1	1 15/16 x 13/16	2	2 5/16	1 1/2
TR-164	12 §	3.5/8	750	1.6	.9	5	BAH	2	1 3/8	2 3/8	1 1/8
TR-165	18 §	6-8	425	2.8	1.0	8	BAH	2 3/8	1 5/8	2 7/8	1 1/4
	Feedback - 168:1 Pri. to Tap										
TR-300	20CT	8	500	.55	.35	10	BAH	2	1 3/8	2 7/16	1 1/2
TR-166	22 §	3.5	400	2.23	.8	5	†BCV-2	1 3/16	1 3/4	1 3/8	1 1/4
TR-167	22	3.5	400	2	.6	5	BAH	2	1 3/8	2 3/8	1 3/8
TR-168	22 §	3.5	425	2.5	.6	5	BAH	2	1 3/8	2 3/8	1 3/8
TR-169	22 §	8-10	375	3.5	1.8	5	BAH	2	1 3/8	2 3/8	1 1/8
TR-191	24CT	4/8	500	2.6	2.2	8	BAH	2 13/16	1 15/16	3 5/16	1 15/16
25581	24CT	16CT*	200	2	1.2	10	TAV	3 7/8 x 2-3/4	4 1/4	3 3/8	3 9/16
TR-304	25	4	400	1.5	.4	4	BAV	2 3/8	1 3/8	2 13/16	1 1/2
TR-170	30 §	3.5	400	1.8	.7	5	BAH	2	1 3/8	2 3/8	1 5/16
TR-171	30CT	3.5 Tapped	350	2	.3	8	BAV	2	2		1 1/2
	Feedback - 3.16:1 Pri. to Tap										
TR-57	32CT	1.6/4	575			10	BAH	2 13/16	2	3 5/16	1 7/8
TR-58	32CT	3.5/8/16	575			10	BAH	2 13/16	2	3 5/16	1 7/8
TR-172	40 §	3.5	300	2.5	.7	5	BAH	2	1 3/8	2 3/8	1 1/4
TR-173	45CT	3.5	350	1.3	.4	8	BAH	2 3/8	1 5/8	2 7/8	1 1/4
TR-8	48CT	4/8		4	1.2	.3	BAH	1 3/8	3/4	1 5/8	13/16
TR-318	48CT	4/8		4	1.2	.3	PCT-3	See Dwg.	13/16	1	7/8
TR-110	48CT	4/8/16		4.1	.78	.3	BAH	1 3/8	3/4	1 5/8	13/16
TR-348	48CT	8	550	2.4	1	5	BAH	2	1 3/8	2 3/8	1 1/4
TR-61	48CT	3.2/8/16	550			5	BHV	1 3/4	1 3/4	2	1 1/4
25514	48CT	4/8/16CT*	750	–	–	5	UTV	1 5/32 x 1-5/32	2	1 1/2	1 1/2
TR-196	48CT	8/16	275	4.5	1.4	8	BAH	2 13/16	1 15/16	3 5/8	1 3/8
TR-59	48CT	1.6/4	550			10	BAV	2 3/8	2 5/16	2 7/8	2
TR-60	48CT	3.2/8/16	550			10	BHV	2 3/8	2 5/16	2 7/8	2
TR-111	100CT	4/8/16		11	1.5	.3	BAH	1 3/8	3/4	1 5/8	13/16
TR-193	100CT	4/8	100	14.4	1.1	2	BAH	1 3/4	1 3/16	2 1/16	1 1/4
TR-62	100	3.2/8/16	150			3	BAV	1 1/2	1 1/2	1 7/8	1 1/4
TR-63	100CT	3.2/8/16	500			10	BAV	2 3/8	2 5/16	2 7/8	2
TR-43	125CT	10		11	1	.05	MAH	–	7/16	1/2	7/16
TR-67	125CT	8	50#			1.5	XAV	1 1/4	1 3/4	1 1/4	1 1/4
TR-21	160CT	4/8		12	1	.3	BAH	1-3/8	3/4	1 5/8	13/16
TR-331	160CT	4/8		12	1	.3	PCT-3	See Dwg.	13/16	1	7/8
TR-112	160	4/8/16		19	1.5	.3	BAH	1 3/8	3/4	1 5/8	13/16
TR-50	200CT	3.2		18	.36	.05	MAH	–	7/16	1/2	7/16
TR-46	200CT	10		18	1	.05	MAH	–	7/16	1/2	7/16
TR-192	200CT	4/8	50	27	1.4	2	BAH	1 3/4	1 3/16	2 1/16	1 1/4
TR-265	250CT	4/8/16	10	34	3.7	.2	BAH	1-3/8	13/16	1 5/8	1
TR-51	300CT	3.2		27	.36	.05	MAH	–	7/16	1/2	7/16
TR-47	300CT	10		27	1	.05	MAH	–	7/16	1/2	7/16
TR-15	300CT	15		21	2.5	.15	BCH	13/16	11/16	13/16	5/8
TR-325	300CT	15		21	2.5	.15	PCT	See Dwg.	11/16	3/4	9/16
TR-101	350CT	4/12		38	1.45	.15	BCH	13/16	11/16	13/16	5/8
TR-174	360CT	10	100	56	1.3	.3	BCH	1 1/16	5/8	1 9/32	3/4
TR-19	400CT	11		27	1.3	.15	BCH	13/16	11/16	13/16	5/8
TR-329	400CT	11		27	1.3	.15	PCT	See Dwg.	11/16	3/4	9/16
TR-16	400CT	16		28	2	.15	BCH	13/16	11/16	13/16	5/8
TR-326	400CT	16		28	2	.15	PCT	See Dwg.	11/16	3/4	9/16
TR-22	400CT	4/8		26	1.1	.3	BAH	1 3/8	3/4	1 5/8	13/16
TR-332	400CT	4/8		26	1.1	.3	PCT-3	See Dwg.	13/16	1	7/8
TR-113	400CT	4/8/16		32	1.5	.3	BAH	1 3/8	3/4	1 5/8	13/16
25506	400 to 500CT	3.2 to 4	20#	35	–	1	RTV	11/16	1 3/16	7/8 Dia.	
TR-53	500CT	3.2		40	.36	.05	MAH	–	7/16	1/2	7/16
TR-49	500CT	10		40	1	.05	MAH	–	7/16	1/2	7/16
25567	500CT*	16CT*	20#	50	1.5	.1	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
TR-27	500CT	3.2		30	.3	.15	BCH	13/16	11/16	13/16	5/8
TR-337	500CT	3.2		30	.3	.150	PCT	See Dwg.	11/16	3/4	9/16

§ Autoformer

* Split CT Winding

Maximum Unbalanced Primary Current

† BCV-2 — Exact Replacement for Ford (Bendix) 2090260-1

CONTINUED NEXT PAGE

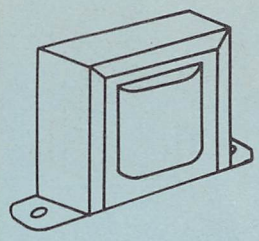
Transistor

Output-Transistor To Voice Coil Continued

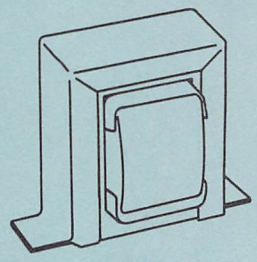
Part No.	Impedance Primary	Impedance Secondary	Primary MADC	Resistance Primary	Resistance Secondary	Power In Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D
TR-102	500CT	4/8/16		75	3.5	.15	BCH	13/16	11/16	13/16	5/8
TR-18	500CT	16.4		30	1.7	.15	BCH	13/16	11/16	13/16	5/8
TR-328	500CT	16.4		30	1.7	.15	PCT	See Dwg.	11/16	3/4	9/16
TR-220	500CT	3.2	0#	15	.35	.25	MAH		19/32	7/8	43/64
TR-114	500CT	4/8/16		47	.85	.3	BAH	1 3/8	3/4	1 5/8	13/16
25S11	500CT	16CT*	20	36	–	1	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
TR-103	600CT	4/8/16		73	3.2	.15	BCH	13/16	11/16	13/16	5/8
TR-20	650CT	16.8		38	1.4	.15	BCH	13/16	11/16	13/16	5/8
TR-330	650CT	16.8		38	1.4	.150	PCT	See Dwg.	11/16	3/4	9/16
TR-115	700CT	4/8/16		77	1.15	.300	BAH	1 3/8	3/4	1 5/8	13/16
TR-29	825CT	3.4		40	.25	.15	BCH	13/16	11/16	13/16	5/8
TR-339	825CT	3.4		40	.25	.15	PCT	See Dwg.	11/16	3/4	9/16
TR-104	825CT	4/8/16		74	2.7	.15	BCH	13/16	11/16	13/16	5/8
TR-116	1,000	4/8/16		120	1.6	.3	BAH	1 3/8	3/4	1 5/8	13/16
TR-209	1,200 to 1,500	3.2 to 4	3#	70	.45	.1	MAH	–	7/16	3/4	5/8
TR-105	1,250	4/12		132	1.4	.15	BCH	13/16	11/16	13/16	5/8
25S05	2,000 to 4,000CT	8 to 16	4#	200	–	.1	RTV	11/16	1 3/16	7/8 Dia	
TR-258	2,000CT	4/8/16	10	260	4	.2	BAH	1-3/8	3/4	1 5/8	1
TR-221	2,000 to 4,000CT	8 to 16	4#	290	2	.25	MAH	–	19/32	7/8	43/64
TR-107	2,500	4/16		370	2.3	.15	BCH	13/16	11/16	13/16	5/8
TR-117	2,500	4/8/16		172	1.15	.3	BAH	1-3/8	3/4	1 5/8	13/16
TR-118	3,000	4/8/16		192	1.2	.3	BAH	1-3/8	3/4	1 5/8	13/16
TR-252	4,000CT	4/8/16		333	1.8	.2	BAH	1-3/8	13/16	1 5/8	1
TR-211	7,500 to 9,400CT	3.2 to 4	4#	770	.73	.1	MAH	–	7/16	3/4	5/8
TR-239	9,800	15	2#	855	1.73	1MW	BAH	1-1/16	5/8	1 9/32	11/16
TR-299	9,800	15	2#	640	2	.5	BAH	2	1 3/8	2 7/16	1 3/8
TR-32	9,800	15		1,070	2.5	.15	BCH	13/16	11/16	13/16	5/8
TR-342	9,800	15		1,070	2.5	.15	PCT	See Dwg.	11/16	3/4	9/16
TR-268	10,000	4	2	709	1.5	.1	BAH	1-1/16	5/8	1 9/32	11/16
TR-203	10,000	3.2	2	800	.65	.1	MAH	–	7/16	3/4	5/8
TR-202	10,000	16	2	800	2.7	.1	MAH	–	7/16	3/4	5/8
TR-109	10,000CT	4/8/16		1,174	2.6	.150	BCH	13/16	11/16	13/16	5/8
TR-255	20,000	4/8	.5#	1,440	1	.1	BAH	1-1/16	5/8	1 9/32	11/16

Maximum Unbalanced Primary Current

* Split Winding



BAH



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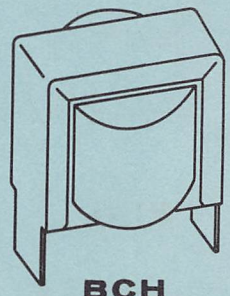


BCH

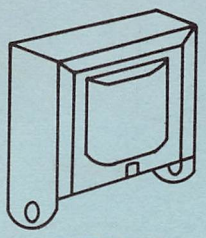
Chokes-Transistor Auto Radio

Part No.	Inductance Rating Millihenrys	Inductance Rating Amps DC	Resistance in Ohms	Test Volts RMS	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
TR-152	12	.6	.58	500	BAH	1-3/4	1 1/4	2 1/8	1-1/16
TR-153	3	1.0	.25	1,000	BCH-1	1-1/4 x 7/16	1 1/4	1 1/2	1
TR-154	11	1.0	.75	1,000	BHC-1	1-1/4 x 7/16	1 1/4	1 1/2	1
TR-155	8	1.9	.5	500	BAH	1-3/4	1 1/4	2 1/8	1 1/8
TR-156	5	2.0	.33	500	BAH	1-3/4	1 1/4	2 1/8	7/8
TR-157	5	2.0	.35	500	BAH	1-3/8	3/4	1 5/8	3/4
TR-158	5	2.0	.33	500	BAV	1-1/2	1 3/8	1 1/4	1 1/8
TR-159	3	3.0	.22	500	BAH	1-3/8	3/4	1 5/8	3/4

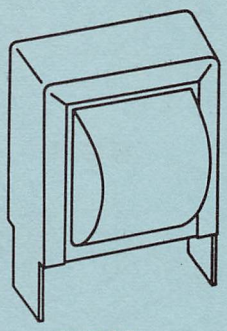
UTV

SEE YOUR REPLACEMENT GUIDE FOR COMPLETE HOME & AUTO RADIO REPLACEMENT INFORMATION

RTV



BCH-1



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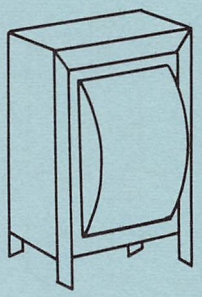

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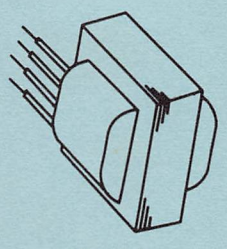


MAH

PCT

SEE PAGE 10 FOR COMPLETE PCT LISTING

Audio Transistor-Open Frame

INCLUDES: (A) INPUT, (J) INTERSTAGE, (D) DRIVER AND (S) OUTPUT TO LINE.

Part No.	Application	Impedance Primary	Impedance Secondary	Unbal. Pri. MADC	Resistance Primary	Resistance Secondary	Power Milli-Watts	Mtg. Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
TR-303	D	30	120*		1.8	3.6	4 W	BAV	2	2	2 3/8	1 1/2
TR-226	A	30/12/4	1,000		5	480	1	MAH	–	7/16	1/2	7/16
TR-305	A	50/100	10	50†			5	BAH	1 3/8	3/4	1 5/8	15/16
TR-225	J	80CT 100CT	32* 40*	16	4.9	3.2	250	MAH	–	19/32	7/8	43/64
TR-12	J	100CT	10CT	10	13	1.5	150	BCH	13/16	11/16	13/16	5/8
TR-322	J	100CT	10CT	10	13	1.5	150	PCT	See Dwg.	11/16	3/4	9/16
TR-349	J	100CT	10CT	100†	10	3	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-296	J	100CT	10CT	100†	4.3	.8	250	BAH	1 3/4	1 1/4	2 1/8	1 1/16
TR-64	D	100	100CT	200	6.5	8.5	500	BAH	1 3/4	1 1/4	2 1/8	1
TR-195	D	100	100CT	100†	9.1	10	4 W	BAH	2 3/8	1 5/8	2 13/16	1 1/2
TR-65	D	100	200CT	200	6.5	16.5	500	BAH	1 3/4	1 1/4	2 1/8	1
TR-257	J	100	1,000CT	100†	5.5	60	1 W	BAH	2	1 3/8	2 3/8	1 1/2
TR-301	D	200CT	400CT	10†			600	TAV	2 3/8 x 1/2	3	2 11/16	2 5/16
TR-194	D	200CT	400CT	10	26.5	58.6	6 W	BAH	2 13/16	1 15/16	3 5/16	1 3/4
TR-246	J	200CT	2,000CT	2	29	233	200	BAH	1 3/8	3/4	1 5/8	1
TR-15	J	300CT	15	2	21	2.5	150	BCH	13/16	11/16	13/16	5/8
TR-325	J	300CT	15	2	21	2.5	150	PCT	See Dwg.	11/16	3/4	9/16
TR-224	J	400CT 500CT	40* 50*	8	20	4.5	250	MAH	–	19/32	7/8	43/64
TR-223	J	400CT 500CT	120* 150*	8	20	12.6	250	MAH	–	19/32	7/8	43/64
TR-222	J	400CT 500CT	400* 500*	8	20	45	250	MAH	–	19/32	7/8	43/64
TR-247	J	400CT	2,000CT	5	41	128	200	BAH	1 3/8	3/4	1 5/8	1
TR-5	D	490CT	150CT	0	30	16	150	BCH	13/16	11/16	13/16	5/8
TR-315	D	490CT	150CT	0	32	14	150	PCT	See Dwg.	11/16	3/4	9/16
TR-41	D,S	500	50	2	35	4.6	50	MAH	–	7/16	1/2	7/16
TR-11	D,S	500CT	50	3	30	5	150	BCH	13/16	11/16	13/16	5/8
TR-321	D,S	500CT	50	3	30	5	150	PCT	See Dwg.	11/16	3/4	9/16
TR-204	D,S	500 600	50 60	3.5	50	5	100	MAH	–	7/16	3/4	5/8
TR-248	J	500CT	150CT	2	57	32	100	BAH	1 1/16	5/8	1 9/32	11/16
TR-232	J	500CT	200CT	2	38	25	10	BCH	9/16	1/2	9/16	1/2
TR-66	D	500CT	200CT	50	37	17	500	BAH	1 3/4	1 1/4	2 1/8	1
TR-233	S	500CT	500CT	2	37	51	10	BCH	9/16	1/2	9/16	1/2
TR-240	S	500CT	500*	5	50	55	20	BAH	1	5/8	1 7/32	3/4
TR-37	S	500CT	500CT	3	34	42	50	MAH	–	7/16	1/2	7/16
TR-1	D,S	500CT	500CT	4	40	55	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-311	D,S	500CT	500CT	4	40	55	300	PCT-3	See Dwg	13/16	1	7/8
TR-212	S	500CT	600CT	10	26	70	100	MAH	–	7/16	3/4	5/8
TR-259	J	500CT	5,000CT	12†	40	245	1 W	BAH	2	1 3/8	2 3/8	1 3/8
TR-295	J	600CT	10	20†	40	.8	50	BAH	1 3/8	13/16	1 9/16	15/16
TR-241	J	600CT	2,000*		60	200	20	BAH	1	5/8	1 7/32	3/4
TR-180	D	660	16		49	2.2	1 W	BAH	1 3/4	1 1/4	2	1 1/8
TR-182	D	720	20		180	3	1 W	BCH-1	1 5/8 x 1 1/16	1 3/16	2	1
TR-178	D	950	45CT		120	5.2	2 W	BAV	1 3/4	1 11/16	2	1 1/8
TR-184	D	960	15		350	5	2 W	BCH	1 11/16	1 3/8	1 3/4	1 1/4
TR-186	D	1,000	10		160	1	2 W	BCV-1	1 3/32 x 17/32	1 11/16	1 1/2	1 3/8
TR-179	D	1,000	40		130	2.8	2 W	BCV-1	1 3/32 x 17/32	1 11/16	1 1/2	1 1/4
TR-234	D,S	1,000	50		355	20	1	MAH	–	7/16	1/2	7/16
TR-45	D,S	1,000	50		73	4.6	50	MAH	–	7/16	1/2	7/16
TR-205	S	1,000 1,200	50 60	3	90	5	100	MAH	–	7/16	3/4	5/8
TR-177	D	1,000	100		210	20	2 W	BCH††	1 11/16	1 3/8	1 3/4	1 1/4
TR-238	D	1,000	200CT	10	428	128	1	BAH	1 1/16	5/8	1 9/32	11/16
TR-181	D	1,500	30		200	5.5	300	BAH	1 3/8	3/4	1 5/8	3/4
TR-4	D,S	1,500	500CT		100	45	150	BCH	13/16	11/16	13/16	5/8
TR-314	D,S	1,500	500CT		100	45	150	PCT	See Dwg.	11/16	3/4	9/16
TR-231	J,S	1,500CT	600*		160	65	10	BCH	17/32	7/16	17/32	7/16
TR-237	J,S	1,500CT	600*	6	150	60	20	BAH	1	5/8	1 7/32	3/4
TR-213	J,S	1,500CT	600CT	7	70	65	100	MAH	–	7/16	3/4	5/8
TR-85	D	2,000	20		220	5	1 W	BAH	1 3/4	1 3/16	2 1/8	15/16
TR-260	D	2,000CT	200CT	10	748	120	100	BAH	1 1/16	5/8	1 9/32	11/16
TR-176	D	2,000	250		880	9	300	BAH	1 3/8	3/4	1 5/8	3/4
TR-263	J	2,000CT	500CT	2	140	65	200	BAH	1 3/8	3/4	1 5/8	1
TR-249	J	2,000CT	1,500CT	2	165	140	200	BAH	1 3/8	3/4	1 5/8	1
TR-250	J	2,000CT	8,000CT	4	200	550	200	BAH	1 3/8	3/4	1 5/8	1
TR-183	D	2,250	40		420	3.7	2 W	BAV	1 3/4	1 5/8	2 1/8	1 1/8

* Split C.T. Winding
† Balanced Current
†† BCH with printed circuit type leads, replaces Ford 2090259-1

CONTINUED NEXT PAGE

Transistor

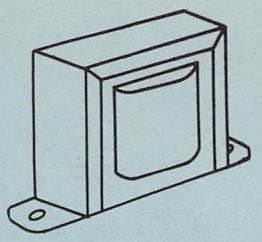
Audio Transistor-Open Frame

INCLUDES: (A) INPUT, (J) INTERSTAGE, (D) DRIVER, (S) OUTPUT TO LINE

Part No.	Appli-cation	Impedance		Unbal. Pri. MADC	Resistance		Power Milli-Watts	Mtg Type	Mtg Centers	Dimensions		
		Primary	Secondary		Primary	Secondary				H	W	D
TR-251	J	3,000CT	1,000CT	4	263	105	200	BAH	1 3/8	3/4	1 5/8	1
TR-188	D	3,400	10		270	1.6	1 W	BAH	1 3/4	1 1/4	2 1/8	1
TR-39	D,J	4,000	2,600CT		330	220	50	MAH		7/16	1/2	7/16
TR-187	D	4,500	20		150	1.6	2 W	BAH	2	1 3/8	2 3/8	1 1/8
TR-190	D	5,000	50		900	8	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-253	J	5,000	200CT	1	440	27	100	BAH	1 1/16	5/8	1 9/32	11/16
TR-68	D	5,000	3,000CT	20	185	103	200	XAV	1 1/4	1 3/4	1 1/4	1 1/4
TR-2	D,J	5,000CT	7,500CT	1	550	980	150	BCH	13/16	11/16	13/16	5/8
TR-312	D,J	5,000CT	7,500CT	1	550	980	150	PCT	See Dwg.	11/16	3/4	9/16
TR-3	D,J	5,000CT	10,000CT	1	550	1,100	150	BCH	13/16	11/16	13/16	5/8
TR-313	D,J	5,000CT	10,000CT	1	550	1,100	150	PCT	See Dwg.	11/16	3/4	9/16
TR-9	A,J	5,000	30,000CT	3	370	1,300	150	BCH	13/16	11/16	13/16	5/8
TR-319	A,J	5,000	30,000CT	3	370	1,300	150	PCT	See Dwg.	11/16	3/4	9/16
TR-10	A,J	5,000CT	45,000	2	310	1,400	150	BCH	13/16	11/16	13/16	5/8
TR-320	A,J	5,000CT	45,000	2	310	1,400	150	PCT	See Dwg.	11/16	3/4	9/16
TR-266	J	5,000CT	50,000CT	1	378	6,410	200	BAH	1 3/8	13/16	1 5/8	1
TR-13	A,J	5,000CT	80,000	2	260	1,520	150	BCH	13/16	11/16	13/16	5/8
TR-323	A,J	5,000CT	80,000	2	260	1,520	150	PCT	See Dwg.	11/16	3/4	9/16
TR-108	A,J	5,000CT	80,000CT	0	573	5,740	150	BCH	13/16	11/16	13/16	5/8
TR-308	A,J	5,000CT	80,000CT	0	573	5,740	150	PCT	See Dwg.	11/16	3/4	9/16
TR-351	D	6,000	280CT	4	747	6.7	20	BAH	1 3/8	3/4	1 5/8	13/16
TR-38	D,J	6,000	5,000CT	2	330	250	50	MAH	–	7/16	1/2	7/16
TR-52	S	7,000	50	2	440	4.6	50	MAH	–	7/16	1/2	7/16
TR-189	D	8,000	20		210	3.3	2 W	BAH	2	1 3/8	2 3/8	1 3/8
TR-350	D	8,000	2,000CT	4	355	205	500	BCH	1 3/8	1 3/16	1 7/16	1
TR-23	D,S	10,000	200CT	1	900	11	150	BCH	13/16	11/16	13/16	5/8
TR-333	D,S	10,000	200CT	1	900	11	150	PCT	See Dwg.	11/16	3/4	9/16
TR-207	J	10,000CT 25,000CT	200CT 500CT	2 1	650	22	100	MAH	–	7/16	3/4	5/8
TR-210	D,S	10,000 12,500	500CT 600CT	2	800	95	100	MAH	–	7/16	3/4	5/8
TR-215	J	10,000CT 12,000CT	1,500CT 1,800CT	4	800	300	100	MAH	–	7/16	3/4	5/8
TR-229	J	10,000CT	2,000CT	0	1,000	250	1	BCH	17/32	7/16	17/32	7/16
TR-235	J	10,000CT	2,000CT	0	1,000	200	10	BAH	1	5/8	1 7/32	3/4
TR-40	J	10,000	2,000CT	2	295	147	50	MAH	–	7/16	1/2	7/16
TR-201	J	10,000	2,000CT	1	1,200	45	100	MAH	–	7/16	3/4	5/16
TR-7	J	10,000	2,000CT	2	740	300	150	BCH	13/16	11/16	13/16	5/8
TR-317	J	10,000	2,000CT	2	740	300	150	PCT	See Dwg.	11/16	3/4	9/16
TR-219	J	10,000	2,000CT	1	1,000	40	200	MAH	–	19/32	7/8	43/64
TR-264	J	10,000	2,000CT	1	1,034	334	250	BAH	1 3/8	13/16	1 5/8	1
TR-175	D	10,000	2,000CT		1,600	310	300	BCH‡	1 1/16	13/16	1 1/8	7/8
TR-6	D,J	10,000	3,000CT	3	820	660	150	BCH	13/16	11/16	13/16	5/8
TR-316	D,J	10,000	3,000CT	3	820	660	150	PCT	See Dwg.	11/16	3/4	9/16
TR-230	‡‡	10,000CT	10,000CT	0	1,100	1,400	1	BCH	17/32	7/16	17/32	7/16
TR-216	‡‡	10,000CT 12,000CT	10,000CT 12,000CT	1	560	650	100	MAH	–	7/16	3/4	5/8
TR-25	J,S	15,000	200CT	2	1,100	11	150	BCH	13/16	11/16	13/16	5/8
TR-335	J,S	15,000	200CT	2	1,100	11	150	PCT	See Dwg.	11/16	3/4	9/16
TR-262	J,S	15,000	200CT	1.5	2,130	30	200	BAH	1 3/8	13/16	1 5/8	1
TR-254	J	16,000	4,000	1	1,373	330	100	BAH	1 1/16	5/8	1 9/32	11/16
TR-48	A,J	20,000	600	1	560	43	50	MAH	–	7/16	1/2	7/16
TR-256	J	20,000	800CT	.5	1,435	82	100	BAH	1 1/16	5/8	1 9/32	11/16
TR-17	J	20,000	800CT	1	1,350	95	150	BCH	13/16	11/16	13/16	5/8
TR-327	J	20,000	800CT	1	1,350	95	150	PCT	See Dwg.	11/16	3/4	9/16
TR-200	J	20,000 30,000	800 1,200	.5	800	110	100	MAH	–	7/16	3/4	5/8
TR-218	J	20,000 30,000	800 1,200	.5	450	32	200	MAH	–	19/32	7/8	43/64
TR-208	J	20,000CT 30,000CT	800CT 1,200CT	1	800	110	100	MAH	–	7/16	3/4	5/8
TR-44	A,J	20,000	1,200	1	560	72	50	MAH	–	7/16	1/2	7/16
TR-14	A,J	20,000	1,200	2	1,250	94	150	BCH	13/16	11/16	13/16	5/8
TR-324	A,J	20,000	1,200	2	1,250	94	150	PCT	See Dwg.	11/16	3/4	9/16
TR-106	A,J	20,000CT	1,200	2	1,860	142	150	BCH	13/16	11/16	13/16	5/8
TR-227	J	20,000	1200/600/100	.5	2,700	350	1	MAH	–	7/16	1/2	7/16
TR-42	A,J	20,000	2,000CT	2	560	140	50	MAH	–	7/16	1/2	7/16
TR-261	D	20,000CT	2,000CT	1	2,140	327	200	BAH	1 3/8	13/16	1 5/8	1
TR-228	J,S	25,000CT	500CT		2,000	60	1	BCH	17/32	7/16	17/32	7/16
TR-31	A,S	40,000	100	1	1,150	5	150	BCH	13/16	11/16	13/16	5/8

‡ Printed circuit type leads – replaces Buick, Olds, Pontiac 7273764 & 7270811

‡‡ High impedance isolation or interstage



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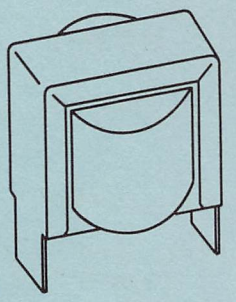
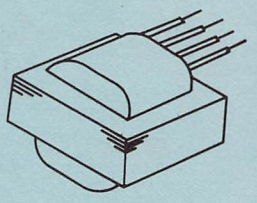
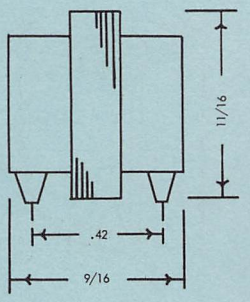


BCH



MAH



PCT

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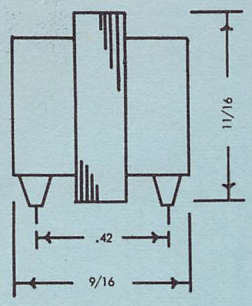
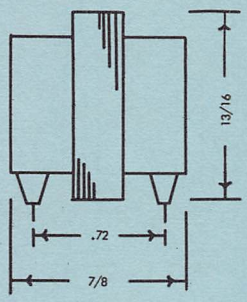
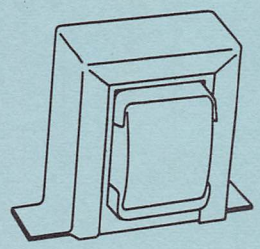


PCT

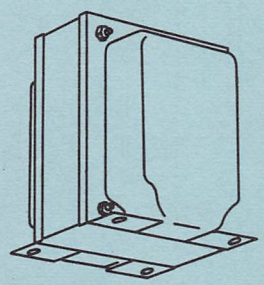
SEE PAGE 10 FOR COMPLETE PCT LISTING



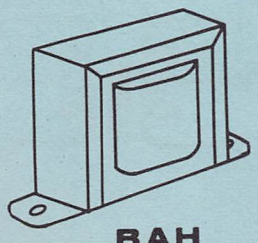
PCT-3



BAV



GGV



BAH

Audio Transistor-Open Frame

INCLUDES: (A) INPUT, (J) INTERSTAGE, (D) DRIVER, (S) OUTPUT TO LINE.

Part No.	Application	Impedance Primary	Impedance Secondary	Unbal. Pri. MADC	Resistance Primary	Resistance Secondary	Power Milli-Watts	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
TR-341	A,S	40,000	100	1	1,150	5	150	PCT	See Dwg.	11/16	3/4	9/16
TR-217	J	40,000CT 50,000CT	400* 500*	.5	1,900	43	100	MAH	–	7/16	3/4	5/8
TR-34	A	50,000	30CT	0	1,400	2.5	150	BCH	13/16	11/16	13/16	5/8
TR-344	A	50,000	30CT	0	1,400	2.5	150	PCT	See Dwg.	11/16	3/4	9/16
TR-30	A,S	50,000	200CT	1	1,400	9	150	BCH	13/16	11/16	13/16	5/8
TR-340	A,S	50,000	200CT	1	1,400	9	150	PCT	See Dwg.	11/16	3/4	9/16
TR-242	A,D	50,000	500CT	.5	6,090	47.5	100	BAH	1 1/16	5/8	1 9/32	11/16
TR-26	A,D	50,000	500CT	1	1,300	30	150	BCH	13/16	11/16	13/16	5/8
TR-336	A,D	50,000	500CT	1	1,300	30	150	PCT	See Dwg.	11/16	3/4	9/16
TR-236	J,S	50,000	600*	.5	3,800	60	10	BAH	1	5/8	1 7/32	3/4
TR-243	D	50,000	3,000CT	.5	3,720	250	200	BAH	1 3/8	13/16	1 5/8	1
TR-55	A	100,000	50	0	1,170	1.7	50	MAH	–	7/16	1/2	7/16
TR-35	A	100,000	50	0	3,100	5	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-345	A	100,000	50	0	3,100	5		PCT-3	See Dwg.	13/16	1	7/8
TR-244	D	100,000	200CT	.5	9,900	19.5	200	BAH	1 3/8	3/4	1 5/8	1
TR-24	A,J	100,000	1,500CT	.5	3,000	45	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-334	A,J	100,000	1,500CT	.5	3,000	45	300	PCT-3	See Dwg.	13/16	1	7/8
TR-245	D	100,000	3,000CT	.5	9,880	318	200	BAH	1 3/8	13/16	1 5/8	1
TR-206	A	200,000	1,000	0	4,000	190	5	MAH	–	7/16	3/4	5/8
TR-214	A	200,000CT	1,000CT	0	4,000	200	5	MAH	–	7/16	3/4	5/8
TR-54	A,J	200,000	1,000	0	1,330	20	50	MAH	–	7/16	1/2	7/16
TR-267	A	200,000	1,000	0	840	195	100	BAH	1 1/16	5/8	1 9/32	11/16
TR-28	A	200,000	1,000	0	3,000	30	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-338	A	200,000	1,000	0	3,000	30	300	PCT-3	See Dwg.	13/16	1	7/8
TR-119	A	200,000CT	1,000CT	0	1,815	123	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-33	A	250,000	200CT	0	4,400	8.5	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-343	A	250,000	200CT	0	4,400	8.5	300	PCT-3	See Dwg.	13/16	1	7/8
TR-36	A	500,000	200CT	0	7,000	8.5	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-346	A	500,000	200CT	0	7,000	8.5	300	PCT-3	See Dwg.	13/16	1	7/8
TR-56	CHOKE	30 HY. @ 1 MADC		4,000 OHMS				MAH		7/16	1/2	7/16

* Split C.T. Winding

Special Purpose-Transistor

Complete instructions supplied with each unit.

Part No.	Typical Application	Impedance Primary	Impedance Secondary	Pri. MADC	Power in Watts	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
TR-305	Input Driver Modulation — Used in 30 Watt Mobile Transistor Modulator, complete instructions supplied with units	50/100	10	50	5 MW	BAH	1 3/8	13/16	1 5/8	15/16
TR-306		20	36CT	400	1	BAH	1 3/4	1 3/16	2 1/16	1 1/8
TR-307		8CT	7500/5000 @ 120 MADC	–	35	GGV	1 15/16 x 2	3 1/8	3	2 1/2
TR-197	Modulation – PP (Class B) to Modulator	32CT	6000/4000/3000 @ 100 MADC	575 (Bal)	10	BAV	2 3/8	2 5/16	2 7/8	2
TR-198	Modulator – PP (Class B) to Modulator	6CT	6000/4000/3000 @ 200 MADC	5A (Bal)	40	GGV	2 1/2 x 2 1/4	3 7/8	3 9/32	3 1/8
TR-309	Universal Driver Ideal for Lab substitutions or determining the correct turns ratio required for specific applications	Turns Ratio: 1:1CT 6:1 2:1CT 7:1 3:1CT 8:1 4:1CT 9:1 5:1CT 10:1		10	1	BAV	1 3/4	1 3/16	2 1/8	1

Transistor

Printed Circuit -Open Frame-Transistor

300 Milliwatt

MOUNTING PCT-3 WEIGHT .08 LBS.

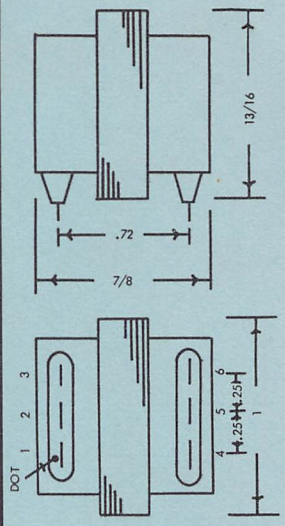
This new line of printed circuit transformers has been developed to fill the gap between the wire-in units and the molded-printed circuit type transistor transformers. The lug numbers on the schematic to the right correspond to the lug numbers on the PCT & PCT-3 drawings. Windings with no taps will have lugs #2 and #5 blank.

LISTED IN ORDER OF THE TURNS RATIO

Part No.	Turns Ratio	Impedance Pri.	Impedance Sec.	Resistance Pri.	Resistance Sec.	Application
TR-311	1:1	500CT	500CT	35	52	D,J
TR-318	2.45:1	48CT	4/8	4	1.2	S
TR-331	4.47:1	160CT	4/8	12	1	S
TR-332	7:07:1	400CT	4/8	26	1.1	S
TR-334	8.17:1	100,000	1,500CT	3,000	45	A,J
TR-338	14.1:1	200,000	1,000	3,000	30	A
TR-343	35.4:1	250,000	200CT	4,400	8.5	A
TR-345	44.7:1	100,000	50	3,100	5	A
TR-346	50:1	500,000	200CT	7,000	8.5	A

LISTED IN ORDER OF THE PRIMARY IMPEDANCE

Part No.	Impedance Pri.	Impedance Sec.	Resistance Pri.	Resistance Sec.	Application
TR-318	48CT	4/8	4	1.2	S
TR-331	160CT	4/8	12	1	S
TR-332	400CT	4/8	26	1.1	S
TR-311	500CT	500CT	35	52	D,J
TR-345	100,000	50	3,100	5	A
TR-334	100,000	1,500CT	3,000	45	A,J
TR-338	200,000	1,000	3,000	30	A
TR-343	250,000	200CT	4,400	8.5	A
TR-346	500,000	200CT	7,000	8.5	A



PCT-3

150 Milliwatt

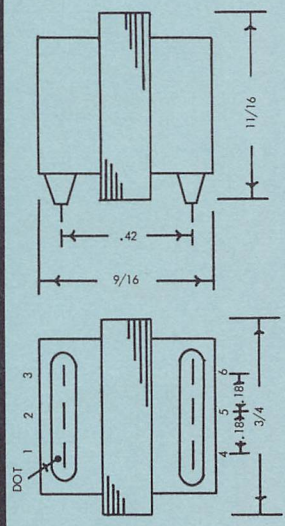
MOUNTING PCT WEIGHT .05 LBS.

LISTED IN ORDER OF THE TURNS RATIO

Part No.	Turns Ratio	Impedance Pri.	Impedance Sec.	Resistance Pri.	Resistance Sec.	Application
TR-312	1.23:1	5,000CT	7,500CT	550	980	D,J
TR-313	1.41:1	5,000CT	10,000CT	550	1,100	D,J
TR-314	1.73:1	1,500	500CT	100	45	D,J,S
TR-315	1.81:1	490CT	150CT	32	14	D,S
TR-316	1.82:1	10,000	3,000CT	820	660	D,J
TR-317	2.24:1	10,000	2,000CT	740	300	D,J
TR-319	2.45:1	5,000	30,000CT	370	1,300	A,J
TR-320	3:1	5,000CT	45,000	310	1,400	A,J
TR-321	3.16:1	500CT	50	30	5	D,S
TR-322	3.16:1	100CT	10CT	13	1.5	D,S
TR-323	4:1	5,000CT	80,000	260	1,520	A,J
TR-308	4:1	5,000CT	80,000CT	573	5,740	A,J
TR-324	4.08:1	20,000	1,200	1,250	94	A,J
TR-325	4.47:1	300CT	15	21	2.5	S
TR-326	5:1	400CT	16	28	2	S
TR-327	5:1	20,000	800CT	1,350	95	A,D,J
TR-328	5.52:1	500CT	16.4	30	1.7	S
TR-329	6.04:1	400CT	11	27	1.3	S
TR-330	6.22:1	650CT	16.8	38	1.4	S
TR-333	7.07:1	10,000	200CT	900	11	S
TR-335	8.66:1	15,000	200CT	1,100	11	J,S
TR-336	10:1	50,000	500CT	1,300	30	A,D
TR-337	12.5:1	500CT	3.2	30	.3	S
TR-339	15.6:1	825CT	3.4	40	.25	S
TR-340	15.8:1	50,000	200CT	1,400	9	A
TR-341	20:1	40,000	100	1,150	5	A
TR-342	25.5:1	9,800	15	1,070	2.5	S
TR-344	40.8:1	50,000	30CT	1,400	2.5	A

LISTED IN ORDER OF THE PRIMARY IMPEDANCE

Part No.	Impedance Pri.	Impedance Sec.	Resistance Pri.	Resistance Sec.	Application
TR-322	100CT	10CT	13	1.5	D,S
TR-325	300CT	15	21	2.5	S
TR-329	400CT	11	27	1.3	S
TR-326	400CT	16	28	2	S
TR-315	490CT	150CT	32	14	D,S
TR-337	500CT	3.2	30	.3	S
TR-328	500CT	16.4	30	1.7	S
TR-321	500CT	50	30	5	D,S
TR-330	650CT	16.8	38	1.4	S
TR-339	825CT	3.4	40	.25	S
TR-314	1,500	500CT	100	45	D,J,S
TR-312	5,000CT	7,500CT	550	980	D,J
TR-313	5,000CT	10,000CT	550	1,100	D,J
TR-319	5,000	30,000CT	370	1,300	A,J
TR-320	5,000CT	45,000	310	1,400	A,J
TR-323	5,000CT	80,000	260	1,520	A,J
TR-308	5,000CT	80,000CT	573	5,740	A,J
TR-342	9,800	15	1,070	2.5	S
TR-333	10,000	200CT	900	11	S
TR-317	10,000	2,000CT	740	300	D,J
TR-316	10,000	3,000CT	820	660	D,J
TR-335	15,000	200CT	1,100	11	J,S
TR-327	20,000	800CT	1,350	95	A,D,J
TR-324	20,000	1,200	1,250	94	A,J
TR-341	40,000	100	1,150	5	A
TR-344	50,000	30CT	1,400	2.5	A
TR-340	50,000	200CT	1,400	9	A
TR-336	50,000	500CT	1,300	30	A,D

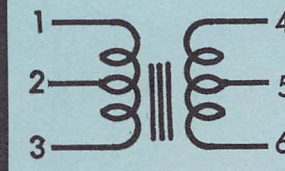


PCT

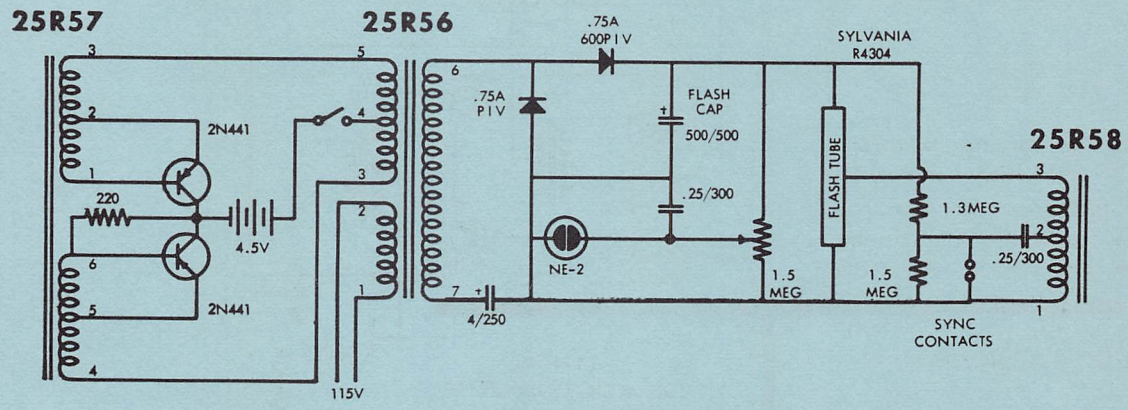
Audio Reactor

MOUNTING PCT-3 WEIGHT .08 LBS.

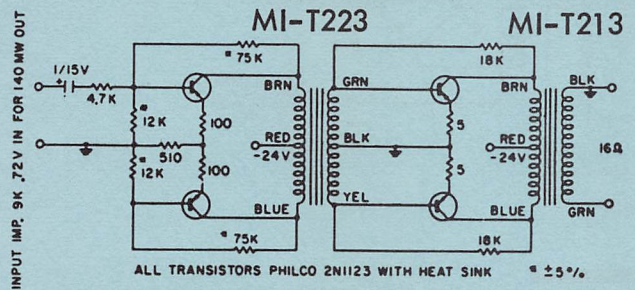
Part No.	Inductance Millihenrys	Inductance MADC	DC Res. In Ohms	Test Volts RMS	Mtg Type
TR-347	150	0	14	500	PCT-3



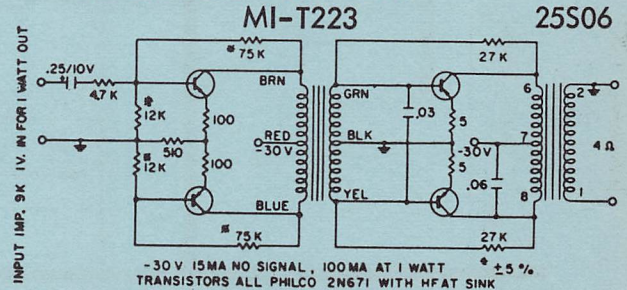
Converter-Photoflash Transformers



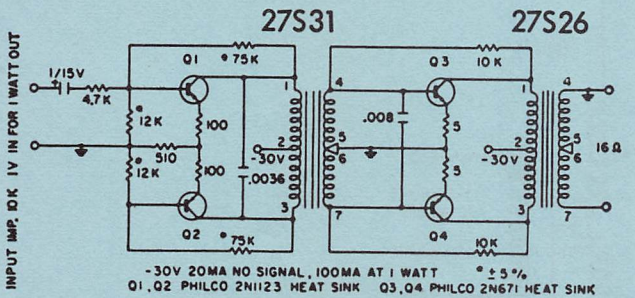
RECOMMENDED TRANSISTOR AMPLIFIER CIRCUITS



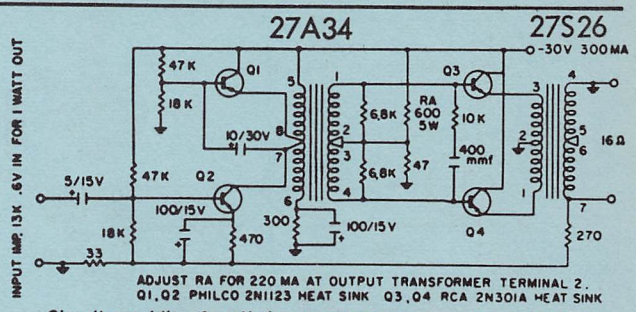
Circuit providing 140 MW, frequency range 300 cycles to 20 KC



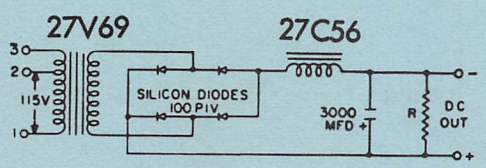
Circuit providing 1 watt, frequency range 200 cycles to 20 KC



Circuit providing 1 watt, frequency range 100 cycles to 20 KC



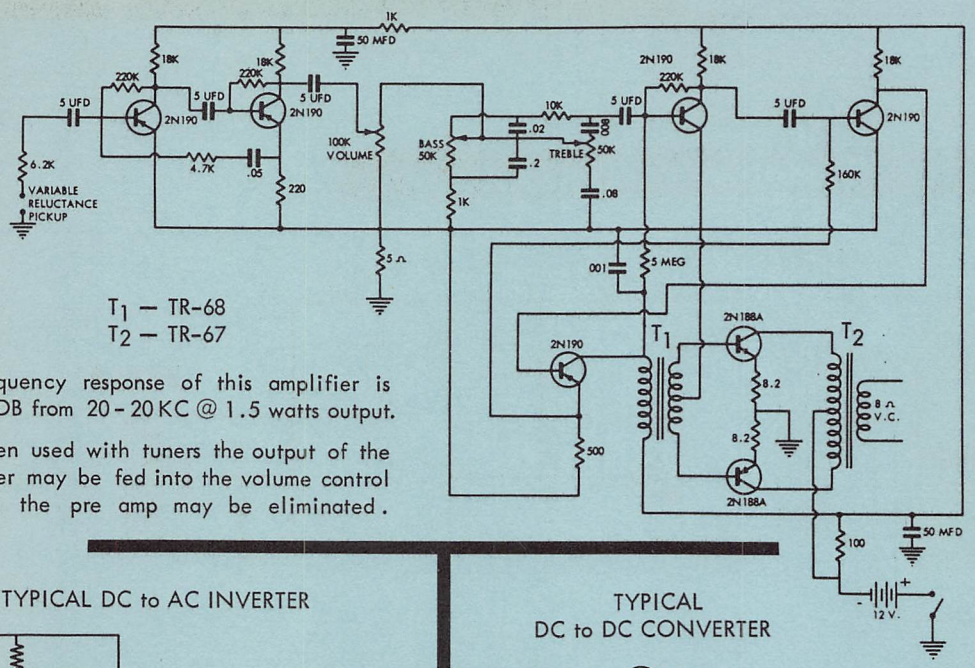
Circuit providing 1 watt, frequency range 40 cycles to 20 KC



Pri. Term.	Sec. Term.	Choke Term.	Diode	R	D.C.V.	A.	0 Load Reg. %
1-3	Par.	Par.	1.5A	70	13	2.5	17
1-2	Par.	Par.	1.5A	60	16.5	2.5	12
1-3	Ser.	Ser.	.75A	300	27.5	1.25	13
1-2	Ser.	Ser.	.75A	250	34.5	1.25	12

Transistor

PHONO AMPLIFIER

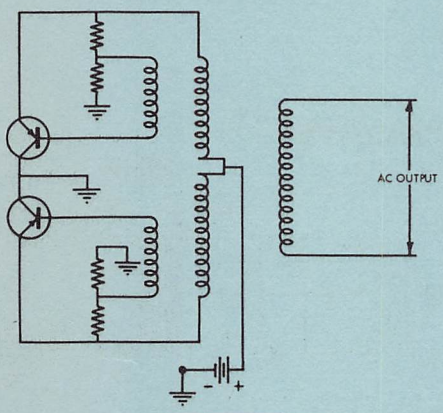


T_1 — TR-68
T_2 — TR-67

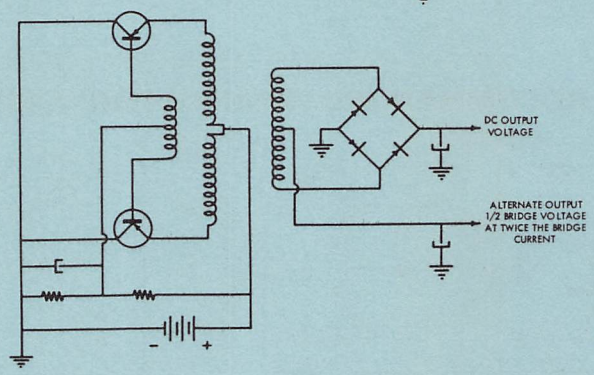
Frequency response of this amplifier is ±2 DB from 20 - 20 KC @ 1.5 watts output.

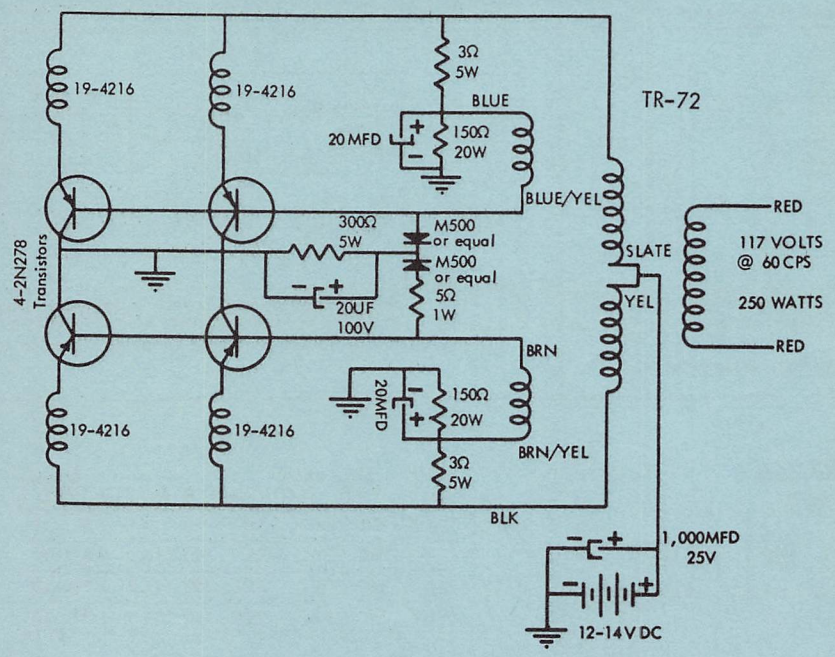
When used with tuners the output of the tuner may be fed into the volume control and the pre amp may be eliminated.

TYPICAL DC to AC INVERTER



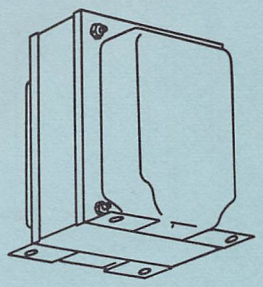
TYPICAL DC to DC CONVERTER



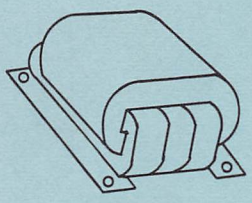


INVERTERS AND CONVERTERS
TRANSISTOR POWER SUPPLY TRANSFORMER

Inverters – DC to AC



GGV

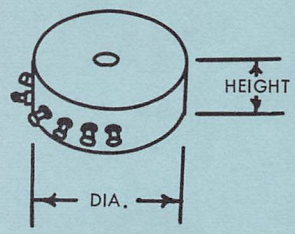


TYL

Recent developments in the power transistor field have made possible the design of circuits which are efficient and rugged converters of low voltage DC to high voltage AC or DC power. These transistorized power supplies are ideally suited for powering all kinds of battery operated equipment such as mobile communication systems, aircraft and marine navigational systems, photoflash, ultrasonic applications and even 117 Volts 60 CPS from an automobile battery so as to operate 117 V radio, television, electric shavers, etc. These transistor power supply transformers give a wide range of voltage and power to choose from. Complete instructions supplied with each transformer.

Part No.	DC Supply Voltage	Output Voltage	Power In Watts	Mtg. Type	Mtg. Centers	Dimensions H	W	D
TR-69	6	117 V @ 60 CPS	50 †	GGV	1 5/8 x 2	3 1/8	2 5/8	2 5/8
TR-70	12	117 V @ 60 CPS	50 †	GGV	1 5/8 x 2	3 1/8	2 5/8	2 5/8
TR-288	12	110-115-125 V @ 400 CPS	60 †	TYL	1 7/8 x 1 3/8	1 7/8	2 1/4	2
TR-71	12	117 V @ 60 CPS	110 †	GGV	2 3/16 x 2 1/2	3 7/8	3 3/16	3 1/2
TR-72	12	117 V @ 60 CPS	250 †	GGV	3 1/16 x 3	4 5/8	3 13/16	4 9/16
TR-73	24	117 V @ 60 CPS	400 †	GGV	3 5/8 x 3 7/8	5 7/8	4 3/8	6
TR-287	28	110-115-125 V @ 400 CPS	60 †	TYL	1 7/8 x 1 3/8	1 7/8	2 1/4	2

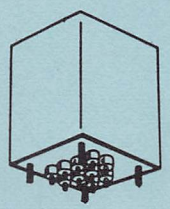
Converter-Epoxy Molded Toroid-DC to DC



T

Part No.	DC Supply Voltage	DC Output Voltage	Output Current In MADC	Power Output In Watts	Mtg. Type	Mtg. Hole Diameter	Dimensions H	Dia.
TR-269	12.6	250/125	100/200	25	T	11/64	11/16	1 3/4
TR-270	12.6	300/150	200/400	60	T	11/64	1	1 3/4
TR-271	12.6	325/162.5	150/300	49	T	11/64	1	1 3/4
TR-272	12.6	375/187.5	200/400	75	T	11/64	1	2
TR-273	12.6	450/225	150/300	68	T	11/64	1	2
TR-274	12.6	500/250	250/500	125	T	3/16	1 3/8	2 3/4
TR-275	12.6	600/300	200/400	120	T	3/16	1 3/8	2 3/4
TR-276	28	250/125	80/160	20	T	7/64	9/16	1 5/16
TR-277	28	300/150	100/200	30	T	11/64	11/16	1 3/4
TR-278	28	325/162.5	200/400	65	T	11/64	1	1 3/4
TR-279	28	375/187.5	200/400	75	T	11/64	1	2
TR-280	28	450/225	200/400	90	T	11/64	1	2
TR-281	28	500/250	250/500	125	T	3/16	1 3/8	2 3/4
TR-282	28	600/300	200/400	120	T	3/16	1 3/8	2 3/4
TR-283	6	300/150	100/200	30	T	11/64	1	1 3/4
TR-284	6	325/162.5	150/300	49	T	11/64	1	2
TR-285	6	375/187.5	200/400	75	T	3/16	1 3/8	2 3/4
TR-286	6	450/225	150/300	68	T	3/16	1 3/8	2 3/4

Converter-Encased-DC To DC-Mil-T-27A



AH-AJ-FA

SEE PAGE 27
FOR CASE SIZES

Part No.	DC Supply Voltage	DC Output Voltage	Output Current In MADC	Power Output In Watts	Mtg. Type	Mtg. Centers	Dimensions H	W	D
27R20	12/14 or 24/28	250	60	15	AH	1 1/4	1 3/4	1 5/16	1 5/16
*27R21	12/14 or 24/28	375	100	37.5	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
27R22	12/14 or 24/28	425	175	53	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
27R23	12/14 or 24/28	550	200	110	GB	2 1/8 x 1 3/4	2 13/16	2 3/4	2 3/8

† Power Rating for Resistive Loads.

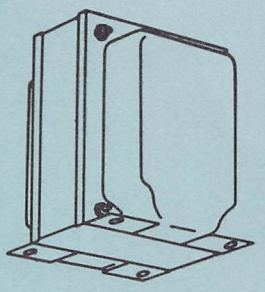
CONTINUED NEXT PAGE

Transistor

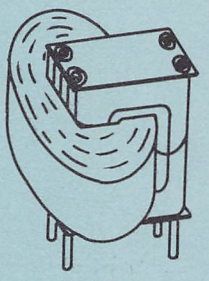
Converter- DC to DC

POTTED & OPEN FRAME

Part No.	DC Supply Voltage	DC Output Voltage	Output Current In MADC	Power Output In Watts	Mtg. Type	Mtg. Centers	Dimensions H	W	D
TR-78	12	250/125	65/130	16.5	DAH	1 1/2	1 3/4	1 3/4	1 3/8
TR-79	6	250	200	50	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16
TR-80	12	250	200	50	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16
TR-81	12	250/125	400/800	100	TAV	1 3/4 x 2 11/16	3 5/16	2 1/2	3
TR-99	6 or 12	275-250 225-200	72	20	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16
TR-74	12	300/150	67/133	20	TAV	1 1/4 x 2 1/8	2 1/4	1 7/8	2 7/16
TR-83	12	300/150	100/200	30	DAH	1 1/2	1 7/8	2 3/8	1 7/8
TR-84	12	300/150	400/800	120	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16
TR-85	12	325/162	150/300	50	DAH	1 1/2	2	2 3/8	2 7/16
TR-87	12	375/187	200/400	75	DAH	1 1/2	2	2 3/8	2 7/16
TR-88	4.5	390/195	30/60	12	DAH	1 1/2	1 3/4	1 3/4	1 11/32
TR-75	12	400/200	50/100	20	TAV	1 1/4 x 2 1/8	2 1/4	1 7/8	2 7/16
TR-89	12	400	125	50	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16
TR-76	6	450/225	40/80	18	TAV	1 1/4 x 2 1/8	2 1/4	1 7/8	2 7/16
TR-77	12	450/225	40/80	18	TAV	1 1/4 x 2 1/8	2 1/4	1 7/8	2 7/16
TR-90	12	450/225	89/178	40	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16
TR-91	12	450/225	270/540	120	TAV	1 3/4 x 2 11/16	3 5/16	2 1/2	3
TR-92	12	500/250	165/275	50	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16
TR-93	12	500/250	200/400	100	TAV	1 3/4 x 2 11/16	3 5/16	2 1/2	3
TR-94	12	500/250	300/600	150	TAV	1 3/4 x 2 11/16	3 5/16	2 1/2	3
TR-82	12	500/275	62.5/125	35	TAV	1 1/4 x 2 1/8	2 1/4	1 7/8	2 7/16
TR-95	12	600/300	200/400	120	DAH	3 11/16	2	4 1/8	3
TR-86	12	700/350	43/86	30	TAV	1 1/4 x 2 1/8	2 1/4	1 7/8	2 7/16
TR-96	12	800/400	150/300	120	TAV	1 3/4 x 2 11/16	3 5/16	2 1/2	3
TR-97	12	1,000/5,000	100/200	100	TAV	1 3/4 x 2 11/16	3 5/16	2 1/2	3
TR-98	12	3,000/1,500	6.5/13	20	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16



GGV

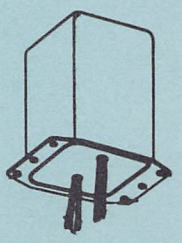


DAH

Converter

MOBILE OR FIXED POWER SUPPLY

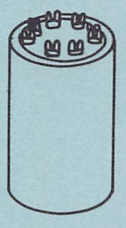
Part No.	Primaries	Secondaries	Mtg. Type	Mtg. Centers	Dimensions H	W	D
TR-294	12.6 Volts DC or 117 Volts AC @ 60 Cycles	280 Volts DC @ 150 MADC and 12.6 Volts AC @ 3 Amps (With 117 Volt Pri. ONLY)	GGV	2 1/2 x 2 11/16	3 7/8	3 7/8	3 1/8



TAV

Converter-Photoflash Power Supply

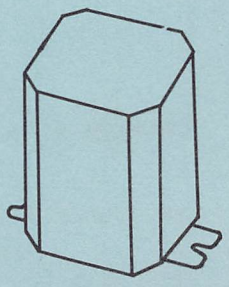
Part No.	Primary	Secondary	Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
25R56	115 V. @ 50/60 CPS or 4.5 Volts. Battery switched with 25R57 Inverter	400 Volts DC in Doubler Ckt. Capacity 40 Watt-Sec.	G-1	2 3/8	1 7/8	2 13/16	1 3/4	1
25R57	4.5 Volt DC Inverter (See Circuit)	Output to Feed 25R56 Step up Transformer	RTV	11/16	1 3/16	7/8 Dia.		1 oz.
25R58	Trigger Transformer Discharge from .25 MFD @ 225 Volt DC	Output 6 KV Pulse	RTV	–	15/16	7/8 Dia.		.5 oz.



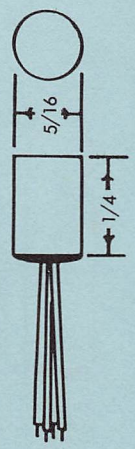
RTV

Converter-Photoflash Schematic

See page 11



G-1

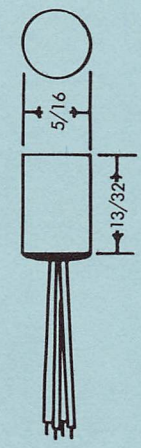


Miniature Transistor Transformers

1/4" HIGH

Designed and built to meet MIL-T-27A Grade 4, Class R Specifications.
Ruggedly constructed, these units have exceptional reliability along with the highest ratings available today for their size.
Circular turns, rigid coil form and lead strain relief are only a few of the unique features inherent in these units.
They can be used for different impedances than specified, keeping in mind that the impedance ratio is constant.
Useable frequency range is 100 cycles to 100,000 cycles.

Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Primary Resistance	Power In Milliwatts
			Primary	Secondary			
MI-T252	TF4RX13YY	Output to Line	1,500CT	600	3	87	500
MI-T251	TF4RX13YY	Output or Driver	10,000 12,000	500CT 600CT	1 1	870	100
MI-T253	TF4RX13YY	Interstage	20,000CT 30,000CT	800CT 1,200CT	.5 .5	815	100



Miniature Transistor Transformers

13/32" HIGH

Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Primary Resistance	Power In Milliwatts
			Primary	Secondary*			
MI-T244	TF4RX17YY	Interstage or Matching or Output	80CT 100CT	32 Split 40 Split	12 10	9.8	500
MI-T229	TF4RX17YY	Single or PP Output	120CT 150CT	3.2 4	10 10	10	500
MI-T212	TF4RX17YY	Single or PP Output	150CT 200CT	12 16	10 10	11	500
MI-T213	TF4RX17YY	Single or PP Output	300CT 400CT	12 16	7 7	20	500
MI-T219	TF4RX17YY	Output to Line or Matching	300CT	600	7	19	500
MI-T230	TF4RX17YY	Single or PP Output	320CT 400CT	3.2 4	7 7	20	500
MI-T243	TF4RX17YY	Interstage or Matching or Output	400CT 500CT	40 Split 50 Split	8 6	46	500
MI-T242	TF4RX17YY	Interstage	400CT 500CT	120 Split 150 Split	8 6	46	500
MI-T241	TF4RX17YY	Interstage or Matching or Output (Ratio 2:1:1) Wide Pulse Application	400CT 500CT	400 Split 500 Split	8 6	46	500
MI-T202	TF4RX17YY	Output or Matching	500 600	50 60	3 3	60	100
MI-T220	TF4RX17YY	Output or Line to Line or Mixing or Matching	500CT	600	5.5	31	500
MI-T204	TF4RX17YY	Output or Matching	600	3.2	3	60	100
MI-T214	TF4RX17YY	Single or PP Output	600CT 800CT	12 16	5 5	43	500
MI-T231	TF4RX17YY	Single or PP Output or Matching	640CT 800CT	3.2 4	5 5	43	500
MI-T215	TF4RX17YY	Single or PP Output	800CT 1,070CT	12 16	4 4	51	500
MI-T232	TF4RX17YY	Single or PP Output	800CT 1,000CT	3.2 4	4 4	51	500
MI-T221	TF4RX17YY	Output to Line	900CT	600	4	53	500
MI-T203	TF4RX13YY	Output or Matching	1,000 1,200	50 60	3 3	115	100
MI-T245	TF4RX12YY	Interstage (Ratio 1:2:2) Wide Pulse Applications	1,000CT 1,250CT	16,000 Split 20,000 Split	3.5 3.5	120	100
MI-T216	TF4RX13YY	Single or PP Output	1,000CT 1,330CT	12 16	3.5 3.5	71	500
MI-T233	TF4RX13YY	Single or PP Output	1,060CT 1,330CT	3.2 4	3.5 3.5	71	500
MI-T205	TF4RX13YY	Output	1,200	3.2	2	105	100
MI-T217	TF4RX13YY	Single or PP Output	1,500CT 2,000CT	12 16	3 3	108	500
MI-T222	TF4RX13YY	Output to Line or Matching	1,500CT	600	3	86	500

CONTINUED NEXT PAGE

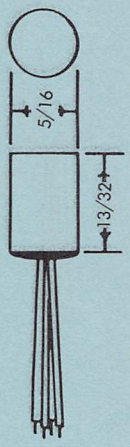
* SPLIT indicates 1/4 of the listed impedance is available by Paralleling the Windings

Transistor

Miniature Transistor Transformers

Continued 13/32" HIGH

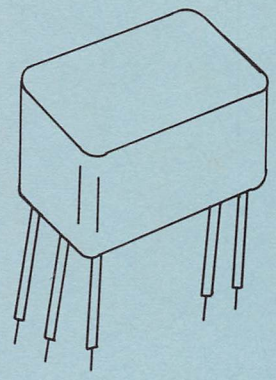
Part No.	MIL-T-27A Classification	Typical Application	Impedance Primary	Impedance Secondary*	Unbalanced Primary MADC	Primary Resistance	Power In Milliwatts
MI-T234	TF4RX13YY	Single or PP Output	1,600CT 2,000CT	3.2 4	3 3	109	500
MI-T237	TF4RX13YY	Isolation or Interstage (Ratio 1:1:1) Wide Pulse Applications	2,000CT 2,500CT	8,000 Split 10,000 Split	3 3	195	100
MI-T218	TF4RX13YY	Single or PP Output	7,500CT 10,000CT	12 16	1 1	505	100
MI-T235	TF4RX13YY	Single or PP Output	8,000CT 10,000CT	3.2 4	1 1	505	100
MI-T248	TF4RX13YY	Interstage, Electrostatic Shielded	8,000CT 10,000CT	1,200CT 1,500CT	1 1	640	100
MI-T247	TF4RX13YY	Isolation or Interstage, Electrostatic Shielded	9,000CT 10,000CT	9,000CT 10,000CT	1 1	850	100
MI-T206	TF4RX13YY	Output	10,000	3.2	1	790	100
MI-T209	TF4RX13YY	Output or Driver	10,000 12,000	500CT 600CT	1 1	780	100
MI-T210	TF4RX13YY	Driver	10,000 12,500	1,200CT 1,500CT	1 1	780	100
MI-T225	TF4RX13YY	Interstage	10,000CT 12,000CT	1,500CT 1,800CT	1 1	780	100
MI-T211	TF4RX13YY	Driver	10,000 12,500	2,000CT 2,500CT	1 1	780	100
MI-T238	TF4RX13YY	Interstage	10,000CT 12,000CT	2,000 Split 2,400 Split	1 1	560	100
MI-T236	TF4RX13YY	Isolation or Interstage (Ratio 1:1) Wide Pulse Applications	10,000CT 12,000CT	10,000CT 12,000CT	1 1	975	100
MI-T201	TF4RX13YY	Interstage	20,000 30,000	800 1,200	.5 .5	830	50
MI-T223	TF4RX13YY	Interstage	20,000CT 30,000CT	800CT 1,200CT	.5 .5	830	100
MI-T239	TF4RX13YY	Interstage	20,000CT 30,000CT	1,000 Split 1,500 Split	.5 .5	800	100
MI-T240	TF4RX13YY	Interstage or Output	40,000CT 50,000CT	400 Split 500 Split	.25 .25	1,700	50
MI-T246	TF4RX16YY	Input (Usable For Chopper Service) Electrostatic Shielded	100,000CT	500CT	0	7,900	25
MI-T207	TF4RX16YY	Input	200,000	1,000	0	8,500	25
MI-T224	TF4RX16YY	Input (Usable For Chopper Service)	200,000CT	1,000CT	0	8,500	25
MI-T250	TF4RX20YY	Inductor (2 Windings)	Series Connected: .075Hy @ 10MADC or .06Hy @ 30MADC, DCR 10.5 Ohms Parallel Connected: .018Hy @ 20MADC or .015Hy @ 60MADC, DCR 2.6 Ohms				
MI-T228	TF4RX20YY	Inductor	.3Hy @ 4MADC or .15Hy @ 20MADC, DCR 25 Ohms				
MI-T227	TF4RX20YY	Inductor	1.25Hy @ 2MADC or .5Hy @ 11MADC, DCR 100 Ohms				
MI-T208	TF4RX20YY	Inductor	3.5Hy @ 2MADC or 1Hy @ 5MADC, DCR 560 Ohms				
MI-T226	TF4RX20YY	Inductor	6Hy @ 2MADC or 1.5Hy @ 5MADC, DCR 2,100 Ohms				
MI-T249	TF4RX20YY	Inductor (2 Windings)	Series Connected: 20Hy @ 1MADC or 8Hy @ 3MADC, DCR 5,100 Ohms Parallel Connected: 5Hy @ 2MADC or 2Hy @ 6MADC, DCR 1,275 Ohms				
MI-T200	TF4RX03YY	Transistor Supply Transformer	Primary: 28Volts @ 380 to 1,000 Cycles Secondary: 6.3Volts @ 60MADC				



* SPLIT indicates 1/4 of the listed impedance is available by Paralleling the windings.

Molded Transistor Transformers

Designed and built to meet MIL-T-27A Grade 5, Class R specifications.
Solid epoxy molded cases provide the ultimate in protection and light weight transistor transformers.
These units have been constructed with the finest materials available including nickel steel.
They have color coded leads. . . . .105 Volt DC operating Voltage. . . . . Frequency range from 100 cycles to 100,000 cycles . . . . . Weight approximately 1/10 oz.

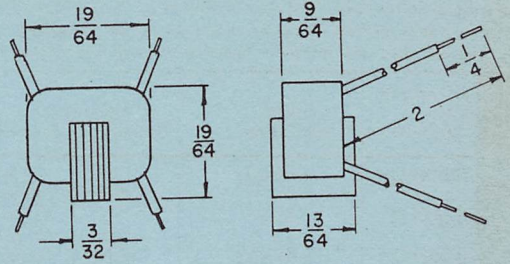


HEIGHT .312
WIDTH .400
LENGTH .426

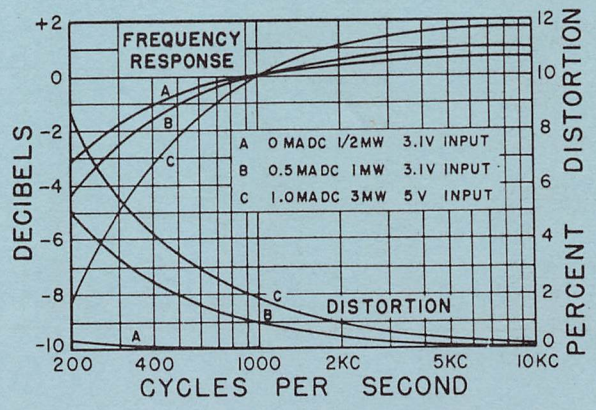
Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Resistance		Power In Milliwatts	Turns Ratio
			Primary	Secondary		Primary	Secondary		
TR-129	TF5RX17ZZ	Single or PP Output	200CT	16	10	25	2.9	500	3.54:1
TR-122	TF5RX17ZZ	Output to Line	300CT*	600	7	35	110	500	1:1.41
TR-136	TF5RX17ZZ	Output	400CT*	16	7	35	2.4	500	5:1
TR-126	TF5RX17ZZ	Output	400	50	3	70	10	100	2.83:1
TR-128	TF5RX17ZZ	Output	500	50	3	105	10	100	3.16:1
TR-121	TF5RX17ZZ	Output or Driver	500CT*	600	5.5	58	105	500	1:1.1
TR-141	TF5RX17ZZ	Output	600	3.2	3	90	.8	100	13.7:1
TR-137	TF5RX17ZZ	Output	800CT*	16	5	86	2.4	500	7.07:1
TR-123	TF5RX17ZZ	Output or Driver	900CT*	600	4	105	110	500	1.25:1
TR-131	TF5RX13ZZ	Output	1,000	50	3	240	15	100	4.46:1
TR-138	TF5RX13ZZ	Output	1,070CT	16	4	100	2.4	500	8.15:1
TR-144	TF5RX13ZZ	Output	1,200	3.2	2	190	.8	100	19.3:1
TR-139	TF5RX13ZZ	Output	1,330CT*	16	3.5	150	2.4	500	9.14:1
TR-124	TF5RX13ZZ	Output or Driver	1,500CT*	600	3	210	120	500	1.58:1
TR-140	TF5RX13ZZ	Output	2,000CT*	16	3	240	2.3	500	11.2:1
TR-146	TF5RX13ZZ	Output	10,000	3.2	1	1,500	.8	100	56:1
TR-145	TF5RX13ZZ	Output	10,000CT*	16	1	750	2.3	500	25:1
TR-133	TF5RX13ZZ	Output or Driver	10,000CT*	500CT*	1	1,160	44	100	4.47:1
TR-127	TF5RX13ZZ	Driver	10,000	1,200CT*	1	1,160	105	100	2.89:1
TR-130	TF5RX13ZZ	Interstage	10,000CT*	1,500CT*	1	1,150	105	100	2.58:1
TR-125	TF5RX13ZZ	Driver	10,000	2,000CT*	1	1,160	160	100	2.54:1
TR-132	TF5RX13ZZ	Interstage	20,000	1,000	1	1,700	275	100	4.47:1
TR-135	TF5RX13ZZ	Interstage	30,000CT*	1,200CT*	.5	1,500	160	100	5:1
TR-134	TF5RX13ZZ	Interstage	30,000	1,200	.5	1,600	170	50	5:1
TR-142	TF5RX16ZZ	Input	200,000	1,000	0	6,500	250	25	14.1:1
TR-143	TF5RX16ZZ	Input	200,000CT	1,000CT	0	6,500	250	25	14.1:1
TR-147	TF5RX20ZZ	Reactor	1 Hy		2	130			
TR-148	TF5RX20ZZ	Reactor	3 Hy		2	330			
TR-149	TF5RX20ZZ	Reactor	6 Hy		2	1,180			
TR-150	TF5RX20ZZ	Reactor	12 Hy		0	1,880			
TR-151	TF5RX20ZZ	Reactor	20 Hy		0	2,850			

TR-120 Transistor Interstage Transformer

1/700TH OF A POUND
1 MILLIWATT OUTPUT
PRIMARY IMPEDANCE 20,000 OHMS
SECONDARY IMPEDANCE 1,000 OHMS
PRIMARY DC RESISTANCE 2,200 OHMS
SECONDARY DC RESISTANCE 310 OHMS



OVERALL DIMENSIONS



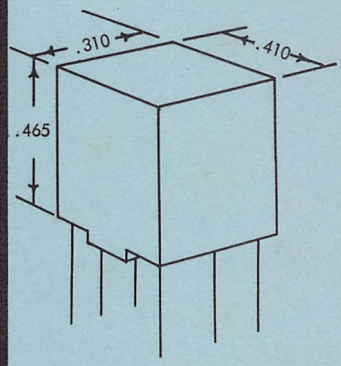
* Balanced Windings

Transistor

Molded - Printed Circuit - Transistor

Designed and built to meet MIL-T-27A Grade 5, Class R Specifications. These small Printed Circuit transistor transformers have high strength nickel alloy leads, base mounting pads, operating D.C. Voltage of 105 Volts, frequency range from 100 to 100,000 cycles and weigh only .1 oz. Units can be used for different impedances than specified, keeping in mind that the impedance ratio is constant.

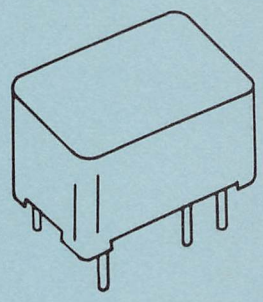
Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Resistance		Power In Milliwatts	Turns Ratio
			Primary	Secondary		Primary	Secondary		
27S103	TF5RX17ZZ	Output	120CT	3.2	10	17	.75	50	6.12:1
27S93	TF5RX17ZZ	Output	150CT	12	10	18	3.5	50	3.54:1
27S94	TF5RX17ZZ	Output	300CT	12	7	42	3.4	50	5:1
27S99	TF5RX17ZZ	Output	300CT	600	7	41	98	50	1:1.42
27S104	TF5RX17ZZ	Output	320CT	3.2	6	44	.77	50	10:1
27S88	TF5RX17ZZ	Output	500	50	3	60	8	50	3.16:1
27S100	TF5RX17ZZ	Output	500CT	600	3	67	98	50	1:1.1
27S90	TF5RX17ZZ	Output	600	3.2	3	70	.76	50	13.6:1
27S105	TF5RX17ZZ	Output	600CT	3.2	4.5	70	.85	50	13.6:1
27S95	TF5RX17ZZ	Output	600CT	12	4.5	70	3	50	7.07:1
27S111	TF5RX17ZZ	Output	600CT	600CT	3	72	92	50	1:1
27S106	TF5RX17ZZ	Output	800CT	3.2	4	107	.86	50	15.8:1
27S101	TF5RX17ZZ	Output	900CT	600	4	104	96	50	1.23:1
27S96	TF5RX17ZZ	Output	1,000CT	12	3.5	120	3	50	9.1:1
27S89	TF5RX17ZZ	Output	1,000	50	3	145	8	50	4.47:1
27S91	TF5RX13ZZ	Output	1,200	3.2	2	131	.76	50	19.3:1
27S107	TF5RX13ZZ	Output	1,200CT	3.2	3	131	.87	50	19.3:1
27S97	TF5RX13ZZ	Output	1,500CT	12	3	179	7.9	50	11.2:1
27S102	TF5RX13ZZ	Output	1,500CT	600	3	168	92	50	1.58:1
27S108	TF5RX13ZZ	Output	1,600CT	3.2	2.5	186	.8	50	22.3:1
27S98	TF5RX13ZZ	Output	7,500CT	12	1	796	2.9	50	25:1
27S109	TF5RX13ZZ	Output	8,000CT	3.2	1	790	.76	50	50:1
27S92	TF5RX13ZZ	Output	10,000	3.2	1	1,160	.81	50	56:1
27D39	TF5RX13ZZ	Driver	10,000CT	500CT	1	1,050	80	50	4.47:1
27D37	TF5RX13ZZ	Driver	10,000CT	1,200CT	1	1,050	200	50	2.89:1
27A112	TF5RX13ZZ	Interstage	10,000CT	1,500CT	1	1,050	300	50	2.58:1
27D38	TF5RX13ZZ	Driver	10,000CT	2,000CT	1	1,050	330	50	2.24:1
27S110	TF5RX13ZZ	Output or Isolation	10,000CT	10,000CT	1	1,200	1,200	50	1:1
27A110	TF5RX13ZZ	Interstage	25,000	1,000	.5	1,700	115	40	5:1
27A111	TF5RX13ZZ	Interstage	25,000CT	1,000CT	.5	1,700	115	40	5:1
27A108	TF5RX16ZZ	Input	50,000CT	1,000CT	0	3,800	75	25	7.07:1
27A109	TF5RX16ZZ	Input	200,000	1,000	0	5,300	100	10	14.1:1
27A107	TF5RX16ZZ	Input	200,000CT	1,000CT	0	5,300	100	10	14.1:1
27C79	TF5RX20ZZ	Audio Choke	6 Hy	–	2	1,700	–	–	–
27C81	TF5RX20ZZ	Audio Choke	3.5 Hy	–	2	1,040	–	–	–
27C80	TF5RX20ZZ	Audio Choke	1.25 Hy	–	2	180	–	–	–
27C82	TF5RX20ZZ	Audio Choke	.9 Hy	–	2	110	–	–	–
27C83	TF5RX20ZZ	Audio Choke	.3 Hy	–	4	44.5	–	–	–
27C84	TF5RX20ZZ	Audio Choke	.1 Hy	–	5	15	–	–	–



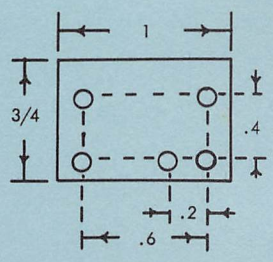
Molded - Printed Circuit - Transistor

Designed and built to meet MIL-T-27A Grade 5, Class R Specifications. Similar to the printed circuit units above but have a frequency range of from 50 cycles to 20,000 cycles. See drawing to the right for complete dimensional details. Weight .05 lbs. Units can be used for different impedances than specified, keeping in mind that the impedance ratio is constant.

Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Resistance		Power In Milliwatts	Turns Ratio
			Primary	Secondary		Primary	Secondary		
27A68	TF5RX17ZZ	Interstage	80CT 100CT	32 Split 40 Split	16	4.9	3.2	250	1.58:1
27A61	TF5RX11ZZ	Input	50 200	62,500 250,000	0	16	2,500	10	11.2:1
27A67	TF5RX17ZZ	Interstage	400CT 500CT	40 Split 50 Split	8	20	4.5	250	3.16:1
27A66	TF5RX17ZZ	Interstage	400CT 500CT	120 Split 150 Split	8	20	12.6	250	1.82:1
27A65	TF5RX17ZZ	Interstage or Isolation	400CT 500CT	400 Split 500 Split	8	20	45	250	1:1 or 2:1:1
27S52	TF5RX17ZZ	Output	500CT	3.2	0	15	.35	250	12.5:1
27S53	TF5RX17ZZ	Output	2,000CT 4,000CT	8 16	4 2	290	2	250	15.8:1
27S49	TF5RX13ZZ	Plate to Line	10,000 25,000	200 500	3 1.5	1,225	30	200	7.07:1
27A64	TF5RX13ZZ	Interstage	10,000	2,000CT	1	1,000	40	200	2.24:1
27A62	TF5RX15ZZ	Plate to Grid	10,000	90,000	.25	215	1,850	100	1:3
27A63	TF5RX13ZZ	Interstage	20,000 30,000	800 1,200	.5	450	32	200	5:1
27S50	TF5RX13ZZ	Output	30,000	50	1	1,850	3.8	200	24.5:1
27S51	TF5RX13ZZ	Output	100,000	60	.5	3,400	3.7	200	40.8:1
27C66	TF5RX20ZZ	Audio Inductor	50 Hy	–	1	2,675	–	–	–



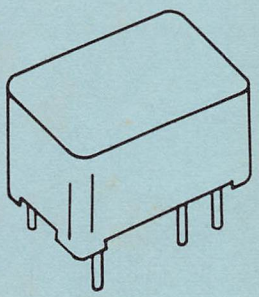
HEIGHT 23/32

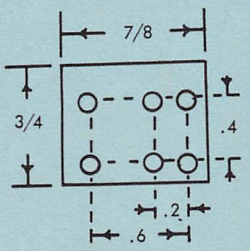


Molded-Printed Circuit

TRANSISTOR AND TUBE TYPE

Designed and built to meet MIL-T-27A Grade 5, Class R Specifications.
Similar to the printed circuit units on the previous page but have a frequency range of from 80 to 20,000 cycles.
See drawing to the left for complete dimensional details.
Units can be used for different impedances than specified, keeping in mind that the impedance ratio is constant.





Part No.	MIL-T-27A Classification	Typical Application	Impedance Primary	Impedance Secondary	Unbalanced Primary MADC	Resistance Primary	Resistance Secondary	Power In Milliwatts	Turns Ratio
27A50	TF5RX10ZZ	Input	50 200	62,500 250,000	0	13.5	3,600	5	11.2:1
27S42	TF5RX17ZZ	Output	500 600	50 60	3.5	50	5	100	3.16:1
27S47	TF5RX17ZZ	Output Matching	500CT	600CT	10	26	70	100	1:1.1
27S43	TF5RX12ZZ	Output	1,000 1,200	50 60	3	90	5	100	4.45:1
27S44	TF5RX13ZZ	Output	1,200 1,500	3.2 4	3	70	.45	100	19.3:1
27S48	TF5RX13ZZ	Output	1,500CT	600CT	7	70	65	100	1.58:1
27S46	TF5RX13ZZ	Single or PP Output	7,500CT 9,400CT	3.2 4	4	770	.73	100	48.5:1
27S41	TF5RX13ZZ	Output	10,000	3.2	2	800	.65	100	56:1
27S40	TF5RX13ZZ	Output	10,000	16	2	800	2.7	100	25:1
27S37	TF5RX13ZZ	Plate to Line	10,000 25,000	200 500	3 1.5	2,500	34	100	7.07:1
27A55	TF5RX13ZZ	Interstage	10,000CT 25,000CT	200CT 500CT	2 1	650	22	100	7.07:1
27S45	TF5RX13ZZ	Output or Driver	10,000 12,500	500CT 600CT	2	800	95	100	4.47:1
27A58	TF5RX13ZZ	Interstage	10,000CT 12,000CT	1,500CT 1,800CT	4	800	300	100	2.58:1
27A53	TF5RX13ZZ	Interstage	10,000	2,000CT	1	1,200	45	100	2.24:1
27A59	TF5RX15ZZ	Interstage or Isolation	10,000CT 12,000CT	10,000CT 12,000CT	1	560	650	100	1:1
27A51	TF5RX15ZZ	Interstage	10,000	90,000	.25	710	3,150	30	1:3
27A52	TF5RX13ZZ	Interstage	20,000 30,000	800 1,200	.5	800	110	100	5:1
27A56	TF5RX13ZZ	Interstage	20,000CT 30,000CT	800CT 1,200CT	1	800	110	100	5:1
27S38	TF5RX13ZZ	Output	30,000	50	1	2,875	4.6	100	24.5:1
27A60	TF5RX13ZZ	Interstage	40,000CT 50,000CT	400 Split 500 Split	.5	1,900	43	100	10:1
27S39	TF5RX13ZZ	Output	100,000	60	.5	3,500	3.3	100	40.8:1
27A54	TF5RX16ZZ	Crystal to Transistor	200,000	1,000	0	4,000	190	5	14.1:1
27A57	TF5RX16ZZ	Crystal/Chopper	200,000CT	1,000CT	0	4,000	200	5	14.1:1
27C63	TF5RX20ZZ	Audio Inductor	50 Hy	–	1	4,400	–	–	–
27C64	TF5RX20ZZ	Audio Inductor	8 Hy 4 Hy	–	2 5	650	–	–	–
27C65	TF5RX20ZZ	Audio Inductor	3.5 Hy 1.5 Hy	–	2 5	160	–	–	–

Printed Circuit Audio Unit

HYPERMALLOY CASE

Designed and built to meet MIL-T-27A Grade 5, Class R Specifications.
This ultra miniature transformer has high shielding, extremely low insertion loss and a frequency range of 200 to 20,000 cycles.
Pin type terminals (.025 dia.) are strong enough to support the unit and are ideal for printed circuit applications.
Dimensions: 7/16 x 31/64 x 9/16 — Weight .2 oz.

Part No.	MIL-T-27A Classification	Typical Application	Impedance Primary	Impedance Secondary	Unbalanced Primary MADC	Resistance Primary	Resistance Secondary	Power In Milliwatts	Turns Ratio
27A69	TF5RX16ZZ	Input or Chopper	200,000	1,000	0	4,200	210	10	14.1:1

Transistor

Encased-Transistor Transformers Mil-T-27A

Designed and built to meet MIL-T-27A Grade 4, Class R Specifications. These steel encased transistor transformers can be used for different impedances than specified, keeping in mind that the impedance is constant. For standard military case sizes such as AJ, FA, EB, etc., see Page 27.

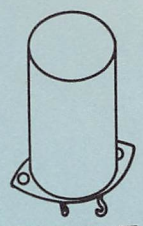
LISTED IN ORDER OF THE PRIMARY IMPEDANCE

Part No.	Application	Impedance		Primary MADC	Resistance		Power In Milliwatts	Mtg Type
		Primary	Secondary		Primary	Secondary		
27S116	Output to V.C.	20CT	8	500	.55	.35	10 W.	AJ
27S30	Output to V.C.	20CT	4/8/16	1 A.			10 W.	RC-62
27A96	Input	30/12/4	1,000	–	5	480	1	TJZ
27S29	Output to V.C.	48CT	4/8/16	750			5 W.	RC-50
27S115	Output to V.C.	48CT	8/16	275	5	1.5	5 W.	FA
27A114	Interstage	100CT	10CT	100	4.3	.8	250	AH
27A119	Interstage	100	100CT	100	12	12	500	EB
27A115	Interstage	100	1,000CT	100	5.8	45	250	AJ
27A131	Interstage	125	500CT		20	55	300	AG
27D36	Driver	200CT	400#	20*			1 W.	RC-50
27S26	Output to V.C.	500CT	16/4#	20*			1 W.	RC-50
27S21	Output to Line	500CT	50	3.5*	50	5	30	TSM
27A42	Interstage	500#	150#	20*			1 W.	RC-50
27A92	Tr. or Line to Tr. or Line	500CT	500#	0*	50	50	25	AF-1
27A41	Interstage	500#	500#	20*			250	RC-25
27A132	Interstage	500CT	500CT	3*	35	51	300	AG
27A46	Mixing or Tr. to Line	500CT	500#	20*			1 W.	RC-50
27S22	Output to Line	500CT	600CT	10*	26		30	TSM
27A116	Interstage	500CT	5,000CT	12*	37	250	30	AJ
27A113	Interstage	600CT	10	20	42	.8	50	AG
27A93	Tr. or Line to Tr.	600CT	2,000#	0*	60	200	25	AF-1
27A38	Input	600#	2,000#	0			31	RC-25
27A130	Input	600/50	20,000	0	58	2,560	60	AG
27S113	Output to V.C.	1,000	4/8/16	10	180	3.5	200	AG
27S87	Tr. to Line or Tr.	1,000	50	5	355	20	1	TJZ
GEO-78	Low Freq – Interstage	1,000#	125#	5*	500	44	10	2**
GEO-79	Low Freq – Interstage 5 Interleaved Cases	1,000#	125#	5*	500	44	10	4**
27A117	Interstage	1,000	200CT	10	400	115	50	AG
GEO-80	Low Freq – Interstage	1,000#	1,000#	5*	540	230	10	3**
GEO-81	Low Freq – Interstage	1,000CT	2,500CT	5*	350	1,800	6.5	2**
GEO-82	Low Freq – Interstage 5 Interleaved Cases	1,000CT	2,400CT	5*	350	1,800	6.5	4**
27S35	Output to Line	1,500CT	500#	4*			100	RC-25
27S23	Output to Line	1,500CT	600CT	7*	71		30	TSM
27S114	Output to V.C.	2,000CT	4/8/16		250	4	200	AG
27S36	Output to V.C.	2,000CT 4,000CT	8 16	4*			100	RC-25
27A118	Interstage	2,000	200CT	5	720	115	50	AG
27S112	Output to V.C.	9,800	15	2	640	2	50	AG
27A28	Interstage	10,000#	200#	2*			100	TFH
27S86	Output to Line	10,000	200	1	200	1,500	1	TJZ
27A39	Interstage	10,000CT	500#	4*			100	RC-25
27A18	Interstage	10,000CT	1,200CT	2*	600	–	30	TSM
27A89	Interstage	10,000CT	2,000CT	2*	1,000	200	10	AF-1
27A19	Interstage	10,000CT	2,000CT	2*	600	–	30	TSM
27A33	Interstage	10,000#	2,000#	4*			100	RC-25
27A129	Interstage	10,000	2,000	2	740	300	150	AG
27A47	Interstage	10,000#	2,000#	8*			1 W.	RC-50
27A34	Interstage	10,000#	4,000#	4*			100	RC-25
27S83	Interstage	15,000CT	600#	0	1,500	60	15	AF-1
27S85	Output to Line	15,000CT	600CT#	.6	1,500	60	25	AF-1
27A35	Interstage	20,000#	800#	1			100	TFH
27A98	Interstage	20,000	1200/600/100	.5	2,700	350	1	TJZ
27A17	Interstage	25,000	1,000	.5	800	110	10	TSM
27A40	Interstage	50,000CT	500#	2*			100	RC-25
27S84	Output to Line	50,000CT	600#	.5	3,800	60	10	AF-1
27A135	Input	100,000	50	–	300	2,940	4.4	RC-25

\# Split C.T. Winding

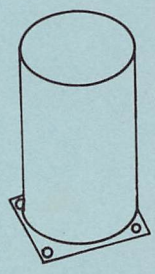
* Maximum Unbalanced Primary Current

** Case size given in Geophysical (Green) Section



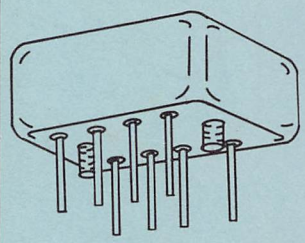
RC-25

SEE PAGE 35 FOR CASE SIZE AND COMPLETE RC-25 LISTING.



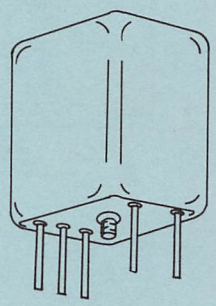
RC-50

SEE PAGE 34 FOR CASE SIZE AND COMPLETE RC-50 LISTING.



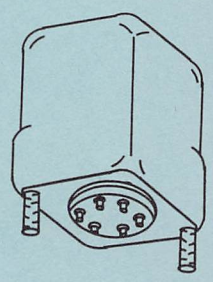
TFH

SEE PAGE 34 FOR CASE SIZE AND COMPLETE TFH LISTING.



TSM

SEE PAGE 34 FOR CASE SIZE AND COMPLETE TSM LISTING.

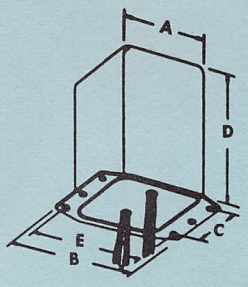


AF-1

SEE PAGE 35 FOR CASE SIZE AND COMPLETE AF-1 LISTING.

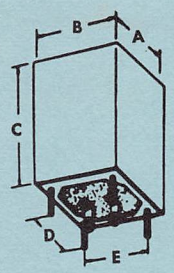
TJZ

SEE PAGE 34 FOR CASE, CASE SIZE AND COMPLETE TJZ LISTING.



TAV

A	B	C	D	E
3 9/16	4 3/8	2 3/4	4 1/4	3 7/8

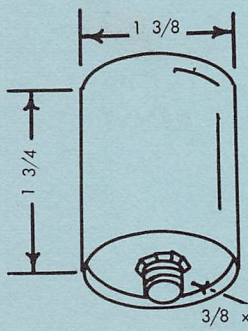


UTV

A	B	C	D	E
1 1/2	1 1/2	2	1 5/32	1 5/32

RTV

7/8 Diameter
1 3/16 High
11/16 Mounting Centers



TAJ

Encased-Transistor Transformers

The performance characteristics of these units closely approximate those of the more costly hermetically sealed units.

The frequency response will be ±3 DB from 50 to 20,000 cycles or better and the input units are electrostatically and magnetically shielded.

Refer to the GREEN section of this catalog for complete listings on the TAJ, RTV, and UTV units.

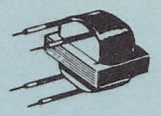
Part No.	Application	Impedance In Ohms Primary	Impedance In Ohms Secondary	DC Resistance Primary	Turns Ratio	Unbalanced Primary Current	Output In Watts	Mtg. Type
25S81	OUTPUT TO V.C.	24CT	16/4*	2	1.23:1	200§	10	TAV
25S14	OUTPUT TO V.C.	48CT	16/8/4*	5	1.23:1	750§	5	UTV
25A06	INTERSTAGE	100CT*	40CT*	10	1.58:1	30	1	TAJ
25A49	INTERSTAGE	100CT*	40CT*	9	1.58:1	40	1	RTV
25A71	INTERSTAGE	100CT*	40CT*	6.2	1.58:1	40	1	UTV
25S06	OUTPUT TO V.C.	400CT	3.2	35	11.2:1	20	1	RTV
25S67	OUTPUT TO V.C.	500CT*	16/4*	50	5.6:1	20	100 MW	TAJ
25S11	OUTPUT TO V.C.	500CT	16/4*	36	5.6:1	20	1	UTV
25A48	INTERSTAGE	500CT*	50/12.5*	33	3.16:1	20	1	RTV
25A70	INTERSTAGE	500CT*	50/12.5*	36	3.16:1	20	1	UTV
25A107	INTERSTAGE	500CT*	100/25*	50	2.24:1	15	100 MW	TAJ
25A47	INTERSTAGE	500CT*	150/37.5*	35	1.82:1	20	1	RTV
25A69	INTERSTAGE	500CT	150/37.5*	36	1.82:1	20	1	UTV
25A46	INTERSTAGE	500/125*	500/125*	37	1:1	20	1	RTV
25S10	OUTPUT TO LINE	500CT	500/125*	36	1:1	20	1	UTV
25A105	INTERSTAGE	500CT*	2,000CT*	50	1:2	20	100 MW	TAJ
25A112	LINE TO TRANSISTOR	600/250/50	600/250/50	40	1:1	-	50 MW	TAJ
25A104	LINE TO TRANSISTOR	600/300/200CT 110/50*	600CT*	62	1:1	-	1 MW	TAJ
25A63	TRANSISTOR TO 2 LOADED LINES OR TRANSISTORS	600/150*	600/150* 600/150*	45	1:1:1	0	30 MW	UTV#
25A34	INPUT	600/150*	2,000/500*	70	1:1.82	0	30 MW	RTV
25A62	INPUT	600/150*	2,000/500*	70	1:1.82	0	10 MW	UTV#
25A108	INTERSTAGE	1,000	200CT*	302	2.2:1	10	200 MW	TAJ
25S04	OUTPUT TO LINE	1,500 CT	500/125*	100	1.73:1	8	100 MW	RTV
25S05	OUTPUT TO V. C.	2,000 to 4,000CT	8 to 16	200	15.8:1	4	100 MW	RTV
25S74	OUTPUT TO LINE	2,000CT	600CT	112	1.83:1		100 MW	TAJ
25A43	INTERSTAGE	10,000CT	500/125*	750	4.47:1	4	100 MW	RTV
25A68	INTERSTAGE	10,000CT*	500/125*	610	4.47:1	8	1	UTV
25A109	INTERSTAGE	10,000CT*	2,000CT*	1,000	2.24:1	4	100 MW	TAJ
25A40	INTERSTAGE	10,000CT*	2,000CT*	800	2.24:1	4	100 MW	RTV
25A64	INTERSTAGE	10,000CT*	2,000CT*	600	2.24:1	8	1	UTV
25A41	INTERSTAGE	10,000CT*	4,000CT*	800	1.58:1	4	100 MW	RTV
25A42	INTERSTAGE	10,000CT	10,000CT	700	1:1	4	100 MW	RTV
25A125	INTERSTAGE	24,000	600	2,660	2:1	5	1 MW	RTVΔ
25A67	INTERSTAGE	25,000CT*	500/125*	1,620	7.07:1	3	1	UTV
25A44	INTERSTAGE	50,000CT	500/125*	3,200	10:1	2	100 MW	RTV
25A124	INTERSTAGE-AUTOFORMER	65,000	65,000	2,500	1:1		1 MW	RTVΔ

§ Total Primary Current - Balanced
* Split Winding
# Multiple Alloy Shield
Δ Mounting Centers 21/32
Height 1 11/32
Case 31/32 Dia.

Miniature

MIniature Transformers

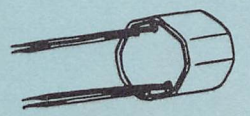
The most complete line of top efficiency miniature transformers ever made available. These miniature transformers are designed for a wide range of civilian and government applications. Used by many manufacturers of hearing aids and a variety of miniature electronic devices where maximum efficiency is necessary. Ideally suited for installation in original equipment and for replacement.



MAH

1 Milliwatt–MI-T

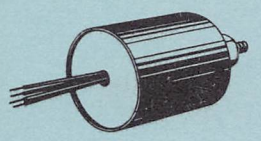
Part No.	Application	Impedance Primary	Impedance Secondary	Primary MADC	Primary Resistance	Secondary Resistance	Mtg. Type	Dimensions H.	Dimensions W. x D.
MI-T1	Interstage	20,000	1,000	.5	1,150	175	MAH	3/8	3/8 x 11/32
							RAV-1	27/64	7/16 Diameter
MI-T2							RSV-1	9/16	7/16 Diameter
MI-T3									
MI-T4	Interstage	20,000	1,000	.5	930	95	MAH	3/8	3/8 x 11/32
							RAV-1	27/64	7/16 Diameter
MI-T5							RSV-1	9/16	7/16 Diameter
MI-T6									
MI-T7	Output	600	50	3	66	7.7	MAH	3/8	3/8 x 11/32
							RAV-1	27/64	7/16 Diameter
MI-T8							RSV-1	9/16	7/16 Diameter
MI-T9									
MI-T10	Output	400	50	3	70	9.3	MAH	3/8	3/8 x 11/32
							RAV-1	27/64	7/16 Diameter
MI-T11							RSV-1	9/16	7/16 Diameter
MI-T12									
MI-T13	Input	200,000	1,000	0	2,600	135	MAH	3/8	3/8 x 11/32
							RAV-1	27/64	7/16 Diameter
MI-T14							RSV-1	9/16	7/16 Diameter
MI-T15									
MI-T16	Output	1,000	50/60	3	160	9	MAH	3/8	3/8 x 11/32
							RAV-1	27/64	7/16 Diameter
MI-T17							RSV-1	9/16	7/16 Diameter
MI-T18									
MI-T19	Choke 12 HY @ 0 MADC 830 Ohms DC Resistance						MAH	3/8	3/8 x 11/32
MI-T20	Choke 12 HY @ 0 MADC 830 Ohms DC Resistance						RSV-1	9/16	7/16 Diameter



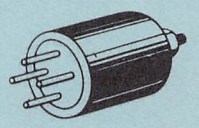
RAV-1

2.5 Milliwatt–MI-T

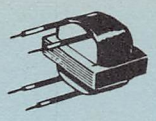
Part No.	Applications	Impedance Primary	Impedance Secondary	Primary MADC	Primary Resistance	Secondary Resistance	Mtg. Type	Dimensions H.	Dimensions W. x D.
MI-T21	Interstage	20,000	1,000	0.5	1,080	125	MAH	3/8	3/8 x 3/8
							RAV-2	41/64	17/32 Diameter
MI-T22							RSV-1	11/16	17/32 Diameter
MI-T23									
MI-T24	Output	400	50	3	54	6.3	MAH	3/8	3/8 x 3/8
							RAV-2	41/64	17/32 Diameter
MI-T25							RSV-1	11/16	17/32 Diameter
MI-T26									
MI-T27	Output	600	50	3	64	7.5	MAH	3/8	3/8 x 3/8
							RAV-2	41/64	17/32 Diameter
MI-T28							RSV-1	11/16	17/32 Diameter
MI-T29									
MI-T30	Input	200,000	1,000	0	3,200	181	MAH	3/8	3/8 x 3/8
							RAV-2	41/64	17/32 Diameter
MI-T31							RSV-1	11/16	17/32 Diameter
MI-T32									
MI-T33	Output	1,000	50	3	163	11.7	MAH	3/8	3/8 x 3/8
							RAV-2	41/64	17/32 Diameter
MI-T34							RSV-1	11/16	17/32 Diameter
MI-T35									
MI-T36	Interstage	30,000	150	0.5	1,610	15	MAH	3/8	3/8 x 3/8
							RAV-2	41/64	17/32 Diameter
MI-T37							RSV-1	11/16	17/32 Diameter
MI-T38									
MI-T39	Choke 20 HY @ 1 MADC 2200 Ohms DC Resistance						MAH	3/8	3/8 x 3/8
MI-T40	Choke 20 HY @ 1 MADC 2200 Ohms DC Resistance						RSV-1	11/16	17/32 Diameter



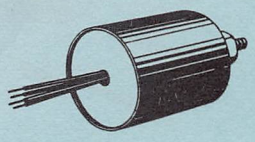
RAV-2



RSV-1

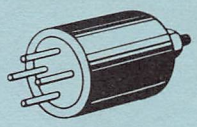


MAH



RAV-2

RAV-3



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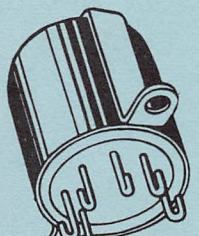
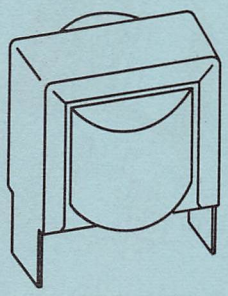


RSV-2



BCH

TRANSFORMERS

Miniature

4 Milliwatt-MI-T

Part No.	Application	Impedance Primary	Impedance Secondary	Primary MADC	Resistance Primary	Resistance Secondary	Mtg Type	Dimensions H.	Dimensions W. x D.
MI-T41							MAH	7/16	1/2 x 7/16
MI-T42	Interstage	500	500	0	45	45	RAV-2	23/32	21/32
MI-T43							RSV-1	23/32	21/32
MI-T44							MAH	7/16	1/2 x 7/16
MI-T45	Output	600	50	3	58	5.4	RAV-2	23/32	21/32
MI-T46							RSV-1	23/32	21/32
MI-T47							MAH	7/16	1/2 x 7/16
MI-T48	Output	50,000	3.4	0.5	2,270	.9	RAV-2	23/32	21/32
MI-T49							RSV-1	23/32	21/32
MI-T50							MAH	7/16	1/2 x 7/16
MI-T51	Interstage	100,000	1,200	0	2,850	94	RAV-2	23/32	21/32
MI-T52							RSV-1	23/32	21/32
MI-T53							MAH	7/16	1/2 x 7/16
MI-T54	Interstage	25,000CT	1,200	0.5	1,580	97	RAV-2	23/32	21/32
MI-T55							RSV-1	23/32	21/32
MI-T56							MAH	7/16	1/2 x 7/16
MI-T57	Input	600CT	1,200CT	0.5	55	109	RAV-2	23/32	21/32
MI-T58							RSV-1	23/32	21/32
MI-T59							MAH	7/16	1/2 x 7/16
MI-T60	Interstage	25,000	600	0.5	1,620	36	RAV-2	23/32	21/32
MI-T61							RSV-1	23/32	21/32
MI-T62							MAH	7/16	1/2 x 7/16
MI-T63	Output	4,000	3.2	0	488	.5	RAV-2	23/32	21/32
MI-T64							RSV-1	23/32	21/32
MI-T65	Choke	30 HY @ 1 MADC 4000 Ohms DC Resistance					MAH	7/16	1/2 x 7/16
MI-T66	Choke	30 HY @ 1 MADC 4000 Ohms DC Resistance					RSV-1	23/32	21/32
MI-T147	Input	600/250/50	60,000	0	350	4,100	MAH	7/16	1/2 x 7/16
MI-T148	Input	200CT	200,000	0	35	5,000	BCH	7/16	17/32 x 7/16
MI-T149	Input	30/12/4	50,000	0	11.5	3,800	MAH	7/16	1/2 x 7/16
MI-T150	Interstage	15,000	135,000	1	985	4,400	MAH	7/16	1/2 x 7/16
MI-T151	Output	10,000	200	1	1,500	120	MAH	7/16	1/2 x 7/16
MI-T152	Coupling Reactor	Series – 4 HY DCR – 400 Ohms Parallel – 1 HY (2 Windings)					BCH	7/16	17/32 x 7/16

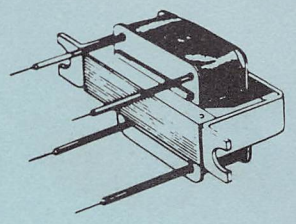
9 Milliwatt-MI-T

Part No.	Application	Impedance Primary	Impedance Secondary	Primary MADC	Resistance Primary	Resistance Secondary	Mtg Type	Dimensions H.	Dimensions W. x D.
MI-T67							MAH	7/16	3/4 x 5/8
MI-T68	Input	200	250,000	0	13.4	3,580	RAV-3	29/32	7/8 Diameter
MI-T69							RSV-2	29/32	7/8 Diameter
MI-T70							MAH	7/16	3/4 x 5/8
MI-T71	Interstage	10,000	90,000	.25	820	3,500	RAV-3	29/32	7/8 Diameter
MI-T72							RSV-2	29/32	7/8 Diameter
MI-T73							MAH	7/16	3/4 x 5/8
MI-T74	Output	25,000	500	0.5	1,750	30	RAV-3	29/32	7/8 Diameter
MI-T75							RSV-2	29/32	7/8 Diameter
MI-T76							MAH	7/16	3/4 x 5/8
MI-T77	Output	30,000	50	1	2,600	4.7	RAV-3	29/32	7/8 Diameter
MI-T78							RSV-2	29/32	7/8 Diameter
MI-T79							MAH	7/16	3/4 x 5/8
MI-T80	Output	100,000	60	.25	4,800	3.5	RAV-3	29/32	7/8 Diameter
MI-T81							RSV-2	29/32	7/8 Diameter
MI-T82							MAH	7/16	3/4 x 5/8
MI-T83	Choke	50 HY @ 1 MADC 4500 Ohm DC Resistance					RAV-3	29/32	7/8 Diameter
MI-T84							RSV-2	29/32	7/8 Diameter
MI-T139	Choke	Series – 8 HY @ 2 MADC DCR 650 Ohms Parallel – 4 HY @ 5 MADC (2 Windings)					MAH	7/16	3/4 x 5/8
MI-T140	Choke	Series – 3.5 HY @ 2 MADC DCR 160 Ohms Parallel – 1.5 HY @ 5 MADC (2 Windings)					MAH	7/16	3/4 x 5/8

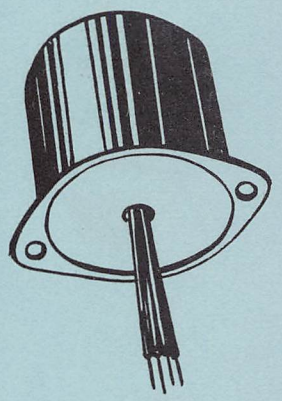
Miniature

12 Milliwatt-MI-T

Part No.	Application	Impedance Primary	Impedance Secondary	Primary MADC	Resistance Primary	Resistance Secondary	Mtg Type	Mtg Centers	Dimensions H.	Dimensions W. x D.
MI-T85							BAH	1 1/16	5/8	1 1/4 x 19/32
MI-T86	Input	200	250,000	0	21.5	2,650	RAV-3	1 5/32	1 3/32	7/8 Diameter
MI-T87							RSV-2	1 5/32	1 3/32	7/8 Diameter
MI-T88							BAH	1 1/16	5/8	1 1/4 x 19/32
MI-T89	Interstage	10,000	90,000	.25	222	2,800	RAV-3	1 5/32	1 3/32	7/8 Diameter
MI-T90							RSV-2	1 5/32	1 3/32	7/8 Diameter
MI-T91							BAH	1 1/16	5/8	1 1/4 x 19/32
MI-T92	Output	25,000	500	1.5	1,750	29	RAV-3	1 5/32	1 3/32	7/8 Diameter
MI-T93							RSV-2	1 5/32	1 3/32	7/8 Diameter
MI-T94							BAH	1 1/16	5/8	1 1/4 x 19/32
MI-T95	Output	30,000	50	1	1,900	3.9	RAV-3	1 5/32	1 3/32	7/8 Diameter
MI-T96							RSV-2	1 5/32	1 3/32	7/8 Diameter
MI-T97							BAH	1 1/16	5/8	1 1/4 x 19/32
MI-T98	Output	100,000	60	.25	4,000	4.38	RAV-3	1 5/32	1 3/32	7/8 Diameter
MI-T99							RSV-2	1 5/32	1 3/32	7/8 Diameter
MI-T100							BAH	1 1/16	5/8	1 1/4 x 19/32
MI-T101	Choke	50 HY @ 1 MADC 3200 Ohm DC Resistance					RAV-3	1 5/32	1 3/32	7/8 Diameter
MI-T102							RSV-2	1 5/32	1 3/32	7/8 Diameter
MI-T141	Input	50 To 200	62,500 To 250,000	0	16	2,500	MAH	–	19/32	7/8 x 43/64
MI-T153	Input	600/250/50	50,000	0	80	3,200	BAH	1	5/8	1 7/32 x 3/4
MI-T154	Input	600/250/50	250,000	0	44	3,600	BAH	1	5/8	1 7/32 x 3/4
MI-T155	Input	600/250/50	60,000CT	0	100	3,600	BAH	1	5/8	1 7/32 x 3/4
MI-T156	Input	30/12/4	50,000	0	7	3,500	BAH	1	5/8	1 7/32 x 3/4
MI-T157	Interstage	15,000	50,000	3	1,100	2,860	BAH	1	5/8	1 7/32 x 3/4
MI-T158	Interstage	15,000	60,000CT	3	1,350	2,700	BAH	1	5/8	1 7/32 x 3/4
MI-T159	Interstage	15,000	95,000CT	3	1,330	3,330	BAH	1	5/8	1 7/32 x 3/4
MI-T160	Input	200	500,000	0	100	4,900	BAH	1	5/8	1 7/32 x 3/4
MI-T161	Interstage	15,000	1 MEG	1	550	4,450	BAH	1	5/8	1 7/32 x 3/4
MI-T162	Output	15,000	600/250/50	4	1,330	58	BAH	1	5/8	1 7/32 x 3/4
MI-T163	Output	15,000	600/250/50	3	1,450	59	BAH	1	5/8	1 7/32 x 3/4
MI-T164	Output	20,000CT	600/250/50	2	2,000	70	BAH	1	5/8	1 7/32 x 3/4
MI-T165	Interstage	12,000CT	600CT Split CT	2	1,000	60	BAH	1	5/8	1 7/32 x 3/4
MI-T166	Line to Line	600/250/50	600/250/50	2	80	85	BAH	1	5/8	1 7/32 x 3/4
MI-T167	Isolation	5,000CT	5,000CT	0	1,710	2,425	BAH	1	5/8	1 7/32 x 3/4
MI-T168	Coupling	8 HY @ 3 MADC or 6 HY @ 6 MADC	DCR 220 Ohms				BAH	1	5/8	1 7/32 x 3/4



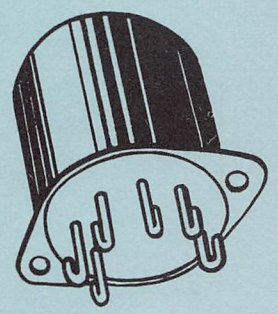
BAH



RAV-4

20 Milliwatt-MI-T

Part No.	Application	Impedance Primary	Impedance Secondary	Resistance Primary	Resistance Secondary	Mtg Type	Mtg Centers	Dimensions H.	Dimensions W. x D.
MI-T103						BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T104	Input	50/250/600	50,000CT	24.5	2,480	RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T105						RSV	1 1/8	1 7/16	15/16 Diameter
MI-T106						BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T107	Input	4/8	50,000CT	.35	2,600	RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T108						RSV	1 1/8	1 7/16	15/16 Diameter
MI-T109						BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T110	Output	400CT	4/8	37	1	RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T111						RSV	1 1/8	1 7/16	15/16 Diameter
MI-T112						BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T113	Interstage	15,000	60,000	1,250	3,450	RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T114						RSV	1 1/8	1 7/16	15/16 Diameter
MI-T115						BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T116	Interstage	15,000	90,000	1,250	5,900	RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T117						RSV	1 1/8	1 7/16	15/16 Diameter
MI-T118						BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T119	Output	15,000	50/250/600	1,250	32	RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T120						RSV	1 1/8	1 7/16	15/16 Diameter
MI-T121						BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T122	Output	160 @ 35 MADC	4/8	13.7	.72	RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T123						RSV	1 1/8	1 7/16	15/16 Diameter
MI-T124						BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T125	Mike to Line	50,000CT	50/250/600	2,480	24.5	RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T126						RSV	1 1/8	1 7/16	15/16 Diameter



RSV-1

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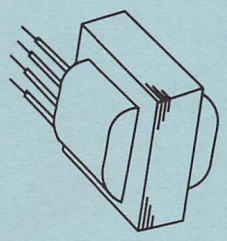
20 Milliwatt-MI-T

Continued

Part No.	Application	Impedance		Resistance		Mtg Type	Mtg Centers	Dimensions	
		Primary	Secondary	Primary	Secondary			H.	W. x D.
MI-T127	Mike to Line	50/250	50/250/600	17.5	33.5	BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T128						RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T129						RSV	1 1/8	1 7/17	15/16 Diameter
MI-T130	Choke	50 HY @ 3 MADC 500 Ohm DC Resistance				BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T131						RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T132						RSV	1 1/8	1 7/16	15/16 Diameter
MI-T133	50:1 Input	200	500,000	17.5	4,800	BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T134						RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T135						RSV	1 1/8	1 7/16	15/16 Diameter
MI-T136	10:1 Interstage	10,000	1 MEG	377	5,400	BAH	1 1/8	3/4	1 5/8 x 13/16
MI-T137						RAV-4	1 1/8	1 7/16	15/16 Diameter
MI-T138						RSV	1 1/8	1 7/16	15/16 Diameter

200 Milliwatt-MI-T

Part No.	Application	Impedance		Resistance		Mtg Type	Dimensions	
		Primary	Secondary	Primary	Secondary		H.	W. x D.
MI-T142	Interstage	10,000	90,000	215	1,850	MAH	19/32	7/8 x 43/64
MI-T143	Output	10,000* To 25,000	200 To 500	1,225	30	MAH	19/32	7/8 x 43/64
MI-T144	Output	30,000 @1 MADC	50	1,850	3.8	MAH	19/32	7/8 x 43/64
MI-T145	Choke	50 HY @ 1 MADC DCR 2675 Ohms				MAH	19/32	7/8 x 43/64
MI-T146	Output	100,000	60	3,400	3.7	MAH	19/32	7/8 x 43/64



MAH

* Unbalanced Primary Current is 3 MADC for 10,000 Ohms and 1.5 MADC @ 25,000 Ohms

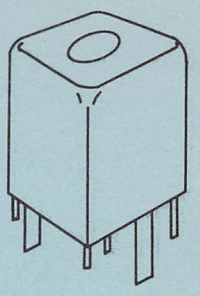
Transistor Coils and Condensers

Transistor I.F.

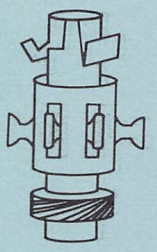
PERMEABILITY TUNED. MAY BE USED IN PRINTED CIRCUITS. ALL UNITS 1/2" SQUARE — LUG MOUNTED. FIG. SS.

Part No.	Frequency	Schematic # No.	Primary Impedance	Secondary Impedance	Height	Application
16-9001	262 KC	106	20,000	600	3/4	A - J - S
16-9002	455 KC	106	25,000	600	3/4	A - J - S
16-9003	455 KC	106	10,000	500	5/8	A - J
16-9004	455 KC	106	10,000	1,500	5/8	S
16-9007	455 KC	107	80,000	25	5/8	A
16-9008	455 KC	107	30,000	25	5/8	J
16-9009	455 KC	106	30,000	1,000	5/8	S
16-9012	455 KC	106	25,000	250	5/8	A
16-9013	455 KC	106	20,000	150	5/8	J
16-9014	455 KC	106	20,000	1,000	5/8	S
16-9015	455 KC	106	100,000	1,000	5/8	S
16-9020	455 KC	106	Admiral 72C182-11			
16-9021	455 KC	106	Admiral 72C182-12			
16-9022	455 KC	106	Admiral 72C223-1			
16-9023	455 KC	106	Admiral 72C223-2			
16-9024	455 KC	106	Admiral 72C223-3			
16-9025	455 KC	106	Admiral 72C182-13			
	SAME AS ABOVE EXCEPT 3/8" SQUARE					
16-9016	455 KC	106	25,000	600	5/8	A
16-9017	455 KC	106	25,000	1,000	5/8	S

Applications: (A) Input, (J) Interstage, (S) Output



SS

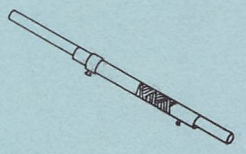


IF

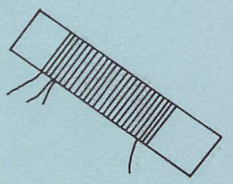
Ferrite Antenna Coils

HIGH Q FOR MAXIMUM PICKUP — MAXIMUM TRANSFER OF ENERGY TO TRANSISTOR. BROADCAST FREQUENCIES.

Part No.	Fig.	Schematic # No.	Tuning Condenser Cap. M.M.F.	Nominal Inductance U.H.	Dimensions
14-9001	FF	103	98	880	5/32 x 3/4 x 2 5/8
14-9003	FR	12	365	240	1/2 Dia. x 7 Lg.
14-9005	FF	104	123	667	5/32 x 3/4 x 3 1/8
14-9009	FR	12	165	506	3/8 Dia. x 7 Lg.
14-9011	FR	12	73	1,125	3/8 Dia. x 5 Lg.
14-9013	FR	12	123	667	3/8 Dia. x 5 Lg.
14-9015	IF	4	100 - 365	200 - 900	3/8 Dia. x 2 Lg.
14-9017	FR	103	365	240	3/4 x 1 x 3 1/2
14-9019	FF	103	365	240	5/32 x 13/16 x 3 1/2
14-9022	FF	103	110	750	5/32 x 3/4 x 2 3/4 Admiral 69C218-16
14-9023	FF	103	123	667	5/32 x 3/4 x 2 7/8 Admiral 69C218-12



FR

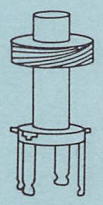


FF

Oscillator Coils

POPULAR COILS FOR REPLACEMENT, HOBBYIST AND EXPERIMENTER. BROADCAST FREQUENCIES.

Part No.	Fig.	Schematic # No.	Tuning Condenser Cap. M.M.F.	Nominal Inductance U.H.	Dimensions
14-9004	IF	15	365 (Pad. 750)	140	11/16 Dia. x 7/8 H.
14-9006	SS	105	78	248	1/2 x 1/2 x 5/8 H.
14-9020	SS	106	98	207	3/8 x 3/8 x 5/8 H.
14-9010	IF	83	82	262	9/16 Dia. x 1 1/8 H.
14-9012	US	83	82	262	9/16 Dia. x 1 1/8 H.
14-9014	IF	83	98	207	11/16 Dia. x 7/8 H.
14-9016	IF	83	365 (Pad. 750)	145	11/16 Dia. x 7/8 H.
14-9024	US	83	Admiral 69A246-2, 69B246-2		
14-9025	US	83	Admiral 69B246-5		
14-9026	US	83	Admiral 79B232-6, 79B232-16		



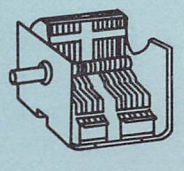
US

Midget Variable Condensers

FOR TRANSISTOR TYPE RECEIVERS

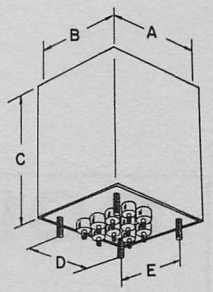
Two section counter clockwise rotation for capacity increase. Shaft diameter is 1/4".

Part No.	Capacity Range Antenna Section	Capacity Range Oscillator Section	Dimensions	Mounting
21-9001	5.5 to 74 MMF	5.2 to 58 MMF	1 3/8 x 1 5/16 x 15/16	4-36 Tapped Holes
21-9002	8.8 to 131.9 MMF	8.5 to 106.3 MMF	1 3/8 x 1 5/16 x 1 3/16	6-32 Tapped Holes
21-9003	8.8 to 131.9 MMF	7.7 to 85.9 MMF	1 3/8 x 1 5/16 x 15/16	6-32 Tapped Holes
21-9004	9.9 to 182.3 MMF	7.7 to 85.9 MMF	1 3/8 x 1 5/16 x 1 3/16	6-32 Tapped Holes
21-9005	10 to 365 MMF	10 to 365 MMF	2 3/16 x 1 13/16 x 1 5/8	6-32 Tapped Holes
21-9006	Single Section 10-365 MMF		1 3/8 x 1 5/16 x 1 3/16	6-32 Tapped Holes



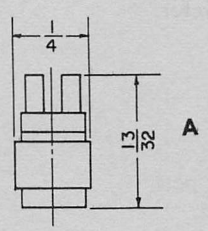
VM

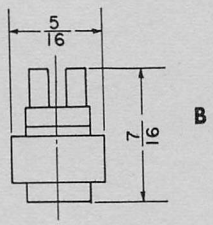
Schematics listed at the end of the Pink pages.

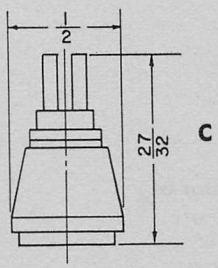


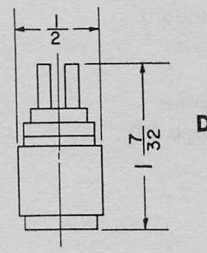
MIL-T-27A CASE TYPE

TERMINAL SIZE & TYPE









"STEEL JACKET" TRANSFORMERS

MEET ALL MIL-T-27A REQUIREMENTS

Specifications

These famous "Steel Jacket" hermetically-sealed transformers meet all the requirements of Grade 1 and Grade 4 MIL-T-27A specifications for Class R operation. Some units shown in this catalog are listed for Class S operation.

These transformers and reactors have been designed to provide the maximum of protection against climate. All units have been rigidly and carefully tested under MIL-T-27A specifications, and meet all Military requirements for communications and control equipment, whether airborne, ship-borne, mobile or ground installed; guided missiles; and in any installation where hermetic sealing and quality construction is necessary.

The famous "Steel Jacket" line has been developed so that the designer may have available to him a complete line of Military transformers, from which he can select for his development applications, pilot runs, pre-production models, "bread board" stages, and "first articles," with complete assurance that these components are acceptable to the Military, and can be duplicated exactly as the original, for his production requirements.

Although maintaining complete "in-plant" test facilities, for performing all testing required, necessary or desirable under MIL-T-27A specifications; these facilities are periodically inspected by the cognizant government agencies, and are part of the rigid Quality Control System.

All "Steel Jacket" Transformers tested under MIL-T-27A specifications are put through the following performance tests, among others:

1. Moisture Resistance tested in temperatures from plus 65° C. to minus 10° C. at 90-95% relative humidity for ten 24 hour cycles.
2. Operated at predetermined overload for 48 hours at rated ambient temperature.
3. Temperature and Immersion cycled for 5 complete cycles of five steps each in temperatures from plus 85° C. to minus 55° C. including salt water immersion test.
4. Insulation Resistance in excess of 1000 megohms at intervals throughout hot and cold cycles.
5. Subjected to "shake table" vibration tests for ten periods of 15 minutes each.
6. Pull Test on all terminals from all directions of 5 lbs. for 30-second periods.
7. Class R units are operated in 65° C. ambient temperature with a temperature rise not exceeding 40°C. Class S units are operated in an 85° C. ambient with a temperature rise not exceeding 40° C.
8. Tested for corona discharge, as required.
9. Each winding is tested at twice the rated A-C voltage and frequency.

Purchasers and users of military type transformers and reactors will note that most of the units in this section are "steel jacketed" in case-types described by 2 letters; that is, EB, FB, GB, etc. These letters are the exact same case-type, with the exact same dimensions and stud sizes as set forth in MIL-T-27A.

Mil-T-27A Case Dimensions

AS DESIGNATED IN MIL-T-27A SPECIFICATIONS

Mtg. Type	-A-	-B-	-C-	D. x E.	STUD SIZE
AF	3/4	3/4	1 1/8	9/16	4-40 x 3/8
AG	1	1	1 3/8	3/4	4-40 x 3/8
AH	1 5/16	1 5/16	1 3/4	1 1/4	6-32 x 3/8
AJ	1 5/8	1 5/8	2 3/8	1 3/16 x 1 3/16	6-32 x 3/8
EA	1 13/16	1 1/16	2 3/4	1 3/8 x 1 1/4	6-32 x 3/8
EB	1 13/16	1 1/16	2 7/16	1 3/8 x 1 1/4	6-32 x 3/8
FA	2 5/16	2 1/16	3 1/8	1 11/16 x 1 7/16	6-32 x 3/8
FB	2 5/16	2 1/16	2 1/2	1 11/16 x 1 7/16	6-32 x 3/8
GA	2 3/4	2 3/8	3 1/16	2 1/8 x 1 3/4	6-32 x 3/8
GB	2 3/4	2 3/8	2 1/16	2 1/8 x 1 3/4	6-32 x 3/8
HA	3 1/16	2 5/8	4 1/4	2 29/64 x 1 59/64	8-32 x 3/8
HB	3 1/16	2 5/8	3 3/16	2 29/64 x 1 59/64	8-32 x 3/8
JA	3 9/16	3 1/16	4 7/8	2 5/8 x 2 1/8	8-32 x 3/8
JB	3 9/16	3 1/16	3 7/8	2 5/8 x 2 1/8	8-32 x 3/8
KA	3 13/16	3 3/8	5 1/4	3 x 2 7/16	10-32 x 1/2
KB	3 13/16	3 3/8	4 5/16	3 x 2 7/16	10-32 x 1/2
LA	4 5/16	3 11/16	5 9/16	3 5/16 x 2 11/16	10-32 x 1/2
LB	4 5/16	3 11/16	4 1/2	3 5/16 x 2 11/16	10-32 x 1/2
MA	4 11/16	4	6	3 11/16 x 3	1/4-20 x 5/8
MB	4 11/16	4	4 13/16	3 11/16 x 3	1/4-20 x 5/8
NA	5 1/16	4 5/16	6 13/16	4 1/16 x 3 5/16	1/4-20 x 5/8
NB	5 1/16	4 5/16	5 1/2	4 1/16 x 3 5/16	1/4-20 x 5/8
OA	5 1/2	4 1/2	6 3/4	3 3/4 x 3	1/4-20 x 5/8

MIL-T-27A Type Designation Reference Data

EXAMPLE OF TYPE DESIGNATION

TF	4	R	X	01	FA	001
COMPONENT	GRADE	CLASS	LIFE EXPECTANCY	FAMILY	CASE SIZE and MOUNTING	IDENTIFICATION NUMBER

COMPONENT — The letters TF identify the unit as a Transformer or Inductor.

GRADE —
- 1 . . . . . Metal encased.
- 2 . . . . . Encapsulated or Molded.
- 4 . . . . . Metal encased, same as Grade 1 but must pass additional shock, Vibration and Thermal shock tests.
- 5 . . . . . Encapsulated or Molded, same as Grade 2 but must pass additional shock, Vibration and Thermal shock tests.
- 3 & 6 . . Open type units intended for subsequent potting or molding in an assembly.

CLASS — Indicates maximum operating temperature in °C.
- Q — 85 (for Grade 1 & 4 only)
- R — 105
- S — 130
- T — 170
- U — Above 170, as specified.

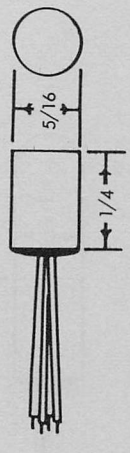
LIFE EXPECTANCY — Life expectancy in hours.
- X — 10,000 minimum.
- Y — 2,500 minimum.
- Z — Less than 500, as specified.

FAMILY — These 2 digit numbers refer to the type of transformer or inductor as defined by its application, such as power, audio, charging, etc.

CASE & MOUNTING DIMENSIONS — These 2 letters refer to the specific case and mounting dimensions as established by MIL-T-27A and are listed on the preceeding page. The letters YY indicate non-standard metal cases and letters ZZ indicate encapsulated or molded units.

IDENTIFICATION NUMBER — This number is assigned to specific transformers or inductors and appear only on military standard units. (See Page 54)

Mil-T-27A Steel Jacket Line



Miniature Transistor Transformers

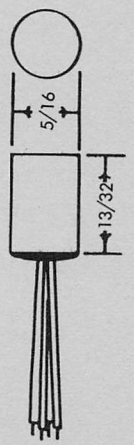
1/4" HIGH

Designed and built to meet MIL-T-27A Grade 4, Class R Specifications.
Ruggedly constructed, these units have exceptional reliability along with the highest ratings available today for their size.
Circular turns, rigid coil form and lead strain relief are only a few of the unique features inherent in these units.
They can be used for different impedances than specified, keeping in mind that the impedance ratio is constant.
Useable frequency range is 100 cycles to 100,000 cycles.

Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Primary Resistance	Power In Milliwatts
			Primary	Secondary			
MI-T252	TF4RX13YY	Output to Line	1,500CT	600	3	87	500
MI-T251	TF4RX13YY	Output or Driver	10,000	500CT	1	870	100
			12,000	600CT	1		
MI-T253	TF4RX13YY	Interstage	20,000CT	800CT	.5	815	100
			30,000CT	1,200CT	.5		

Miniature Transistor Transformers

13/32" HIGH



Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Primary Resistance	Power In Milliwatts
			Primary	Secondary*			
MI-T244	TF4RX17YY	Interstage or Matching or Output	80CT 100CT	32 Split 40 Split	12 10	9.8	500
MI-T229	TF4RX17YY	Single or PP Output	120CT 150CT	3.2 4	10 10	10	500
MI-T212	TF4RX17YY	Single or PP Output	150CT 200CT	12 16	10 10	11	500
MI-T213	TF4RX17YY	Single or PP Output	300CT 400CT	12 16	7 7	20	500
MI-T219	TF4RX17YY	Output to Line or Matching	300CT	600	7	19	500
MI-T230	TF4RX17YY	Single or PP Output	320CT 400CT	3.2 4	7 7	20	500
MI-T243	TF4RX17YY	Interstage or Matching or Output	400CT 500CT	40 Split 50 Split	8 6	46	500
MI-T242	TF4RX17YY	Interstage	400CT 500CT	120 Split 150 Split	8 6	46	500
MI-T241	TF4RX17YY	Interstage or Matching or Output (Ratio 2:1:1) Wide Pulse Application	400CT 500CT	400 Split 500 Split	8 6	46	500
MI-T202	TF4RX17YY	Output or Matching	500 600	50 60	3 3	60	100
MI-T220	TF4RX17YY	Output or Line to Line or Mixing or Matching	500CT	600	5.5	31	500
MI-T204	TF4RX17YY	Output or Matching	600	3.2	3	60	100
MI-T214	TF4RX17YY	Single or PP Output	600CT 800CT	12 16	5 5	43	500
MI-T231	TF4RX17YY	Single or PP Output or Matching	640CT 800CT	3.2 4	5 5	43	500
MI-T215	TF4RX17YY	Single or PP Output	800CT 1,070CT	12 16	4 4	51	500
MI-T232	TF4RX17YY	Single or PP Output	800CT 1,000CT	3.2 4	4 4	51	500
MI-T221	TF4RX17YY	Output to Line	900CT	600	4	53	500
MI-T203	TF4RX13YY	Output or Matching	1,000 1,200	50 60	3 3	115	100
MI-T245	TF4RX12YY	Interstage (Ratio 1:2:2) Wide Pulse Applications	1,000CT 1,250CT	16,000 Split 20,000 Split	3.5 3.5	120	100
MI-T216	TF4RX13YY	Single or PP Output	1,000CT 1,330CT	12 16	3.5 3.5	71	500
MI-T233	TF4RX13YY	Single or PP Output	1,060CT 1,330CT	3.2 4	3.5 3.5	71	500
MI-T205	TF4RX13YY	Output	1,200	3.2	2	105	100
MI-T217	TF4RX13YY	Single or PP Output	1,500CT 2,000CT	12 16	3 3	108	500
MI-T222	TF4RX13YY	Output to Line or Matching	1,500CT	600	3	86	500

CONTINUED NEXT PAGE

* SPLIT indicates 1/4 of the listed impedance is available by Paralleling the Windings

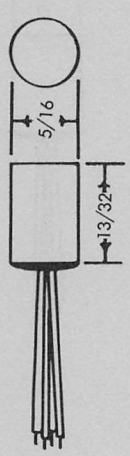
Mil-T-27A

Miniature Transistor Transformers

Continued 13/32" HIGH

Part No.	MIL-T-27A Classification	Typical Application	Impedance Primary	Impedance Secondary*	Unbalanced Primary MADC	Primary Resistance	Power In Milliwatts
MI-T234	TF4RX13YY	Single or PP Output	1,600CT 2,000CT	3.2 4	3 3	109	500
MI-T237	TF4RX13YY	Isolation or Interstage (Ratio 1:1:1) Wide Pulse Applications	2,000CT 2,500CT	8,000 Split 10,000 Split	3 3	195	100
MI-T218	TF4RX13YY	Single or PP Output	7,500CT 10,000CT	12 16	1 1	505	100
MI-T235	TF4RX13YY	Single or PP Output	8,000CT 10,000CT	3.2 4	1 1	505	100
MI-T248	TF4RX13YY	Interstage, Electrostatic Shielded	8,000CT 10,000CT	1,200CT 1,500CT	1 1	640	100
MI-T247	TF4RX13YY	Isolation or Interstage, Electrostatic Shielded	9,000CT 10,000CT	9,000CT 10,000CT	1 1	850	100
MI-T206	TF4RX13YY	Output	10,000	3.2	1	790	100
MI-T209	TF4RX13YY	Output or Driver	10,000 12,000	500CT 600CT	1 1	780	100
MI-T210	TF4RX13YY	Driver	10,000 12,500	1,200CT 1,500CT	1 1	780	100
MI-T225	TF4RX13YY	Interstage	10,000CT 12,000CT	1,500CT 1,800CT	1 1	780	100
MI-T211	TF4RX13YY	Driver	10,000 12,500	2,000CT 2,500CT	1 1	780	100
MI-T238	TF4RX13YY	Interstage	10,000CT 12,000CT	2,000 Split 2,400 Split	1 1	560	100
MI-T236	TF4RX13YY	Isolation or Interstage (Ratio 1:1) Wide Pulse Applications	10,000CT 12,000CT	10,000CT 12,000CT	1 1	975	100
MI-T201	TF4RX13YY	Interstage	20,000 30,000	800 1,200	.5 .5	830	50
MI-T223	TF4RX13YY	Interstage	20,000CT 30,000CT	800CT 1,200CT	.5 .5	830	100
MI-T239	TF4RX13YY	Interstage	20,000CT 30,000CT	1,000 Split 1,500 Split	.5 .5	800	100
MI-T240	TF4RX13YY	Interstage or Output	40,000CT 50,000CT	400 Split 500 Split	.25 .25	1,700	50
MI-T246	TF4RX16YY	Input (Usable For Chopper Service) Electrostatic Shielded	100,000CT	500CT	0	7,900	25
MI-T207	TF4RX16YY	Input	200,000	1,000	0	8,500	25
MI-T224	TF4RX16YY	Input (Usable For Chopper Service)	200,000CT	1,000CT	0	8,500	25
MI-T250	TF4RX20YY	Inductor (2 Windings)	Series Connected: .075Hy @ 10MADC or .06Hy @ 30MADC, DCR 10.5 Ohms Parallel Connected: .018Hy @ 20MADC or .015Hy @ 60MADC, DCR 2.6 Ohms				
MI-T228	TF4RX20YY	Inductor	.3Hy @ 4MADC or .15Hy @ 20MADC, DCR 25 Ohms				
MI-T227	TF4RX20YY	Inductor	1.25Hy @ 2MADC or .5Hy @ 11MADC, DCR 100 Ohms				
MI-T208	TF4RX20YY	Inductor	3.5Hy @ 2MADC or 1Hy @ 5MADC, DCR 560 Ohms				
MI-T226	TF4RX20YY	Inductor	6Hy @ 2MADC or 1.5Hy @ 5MADC, DCR 2,100 Ohms				
MI-T249	TF4RX20YY	Inductor (2 Windings)	Series Connected: 20Hy @ 1MADC or 8Hy @ 3MADC, DCR 5,100 Ohms Parallel Connected: 5Hy @ 2MADC or 2Hy @ 6MADC, DCR 1,275 Ohms				
MI-T200	TF4RX03YY	Transistor Supply Transformer	Primary: 28Volts @ 380 to 1,000 Cycles Secondary: 6.3Volts @ 60MADC				

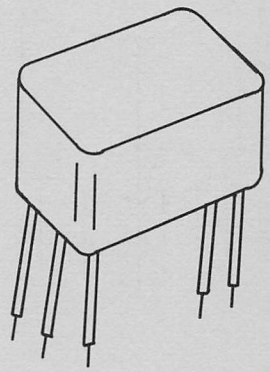
* SPLIT indicates 1/4 of the listed impedance is available by Paralleling the windings.



Mil-T-27A Steel Jacket Line

Molded Transistor Transformers

Designed and built to meet MIL-T-27A Grade 5, Class R specifications. Solid epoxy molded cases provide the ultimate in protection and light weight transistor transformers. These units have been constructed with the finest materials available including nickel steel. They have color coded leads . . . . .105 Volt DC operating Voltage . . . . . Frequency range from 100 cycles to 100,000 cycles . . . . . Weight approximately 1/10 oz.

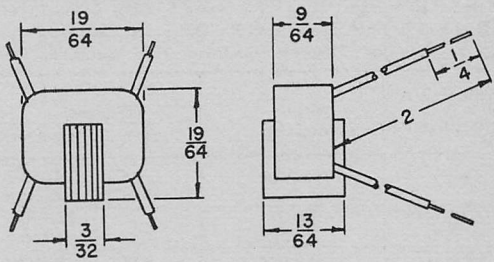


HEIGHT .312
WIDTH .400
LENGTH .426

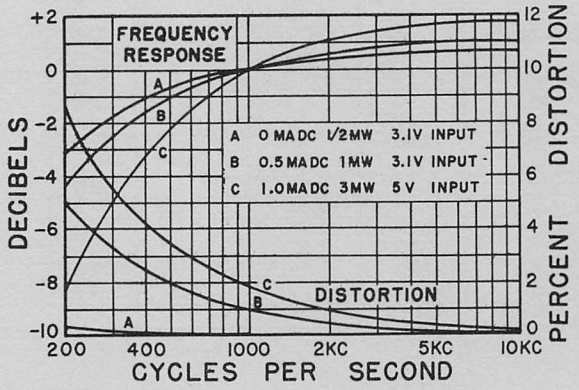
Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Resistance		Power In Milliwatts	Turns Ratio
			Primary	Secondary		Primary	Secondary		
TR-129	TF5RX17ZZ	Single or PP Output	200CT	16	10	25	2.9	500	3.54:1
TR-122	TF5RX17ZZ	Output to Line	300CT*	600	7	35	110	500	1:1.41
TR-136	TF5RX17ZZ	Output	400CT*	16	7	35	2.4	500	5:1
TR-126	TF5RX17ZZ	Output	400	50	3	70	10	100	2.83:1
TR-128	TF5RX17ZZ	Output	500	50	3	105	10	100	3.16:1
TR-121	TF5RX17ZZ	Output or Driver	500CT*	600	5.5	58	105	500	1:1.1
TR-141	TF5RX17ZZ	Output	600	3.2	3	90	.8	100	13.7:1
TR-137	TF5RX17ZZ	Output	800CT*	16	5	86	2.4	500	7.07:1
TR-123	TF5RX17ZZ	Output or Driver	900CT*	600	4	105	110	500	1.25:1
TR-131	TF5RX13ZZ	Output	1,000	50	3	240	15	100	4.46:1
TR-138	TF5RX13ZZ	Output	1,070CT	16	4	100	2.4	500	8.15:1
TR-144	TF5RX13ZZ	Output	1,200	3.2	2	190	.8	100	19.3:1
TR-139	TF5RX13ZZ	Output	1,330CT*	16	3.5	150	2.4	500	9.14:1
TR-124	TF5RX13ZZ	Output or Driver	1,500CT*	600	3	210	120	500	1.58:1
TR-140	TF5RX13ZZ	Output	2,000CT*	16	3	240	2.3	500	11.2:1
TR-146	TF5RX13ZZ	Output	10,000	3.2	1	1,500	.8	100	56:1
TR-145	TF5RX13ZZ	Output	10,000CT*	16	1	750	2.3	500	25:1
TR-133	TF5RX13ZZ	Output or Driver	10,000CT*	500CT*	1	1,160	44	100	4.47:1
TR-127	TF5RX13ZZ	Driver	10,000	1,200CT*	1	1,160	105	100	2.89:1
TR-130	TF5RX13ZZ	Interstage	10,000CT*	1,500CT*	1	1,150	105	100	2.58:1
TR-125	TF5RX13ZZ	Driver	10,000	2,000CT*	1	1,160	160	100	2.54:1
TR-132	TF5RX13ZZ	Interstage	20,000	1,000	1	1,700	275	100	4.47:1
TR-135	TF5RX13ZZ	Interstage	30,000CT*	1,200CT*	.5	1,500	160	100	5:1
TR-134	TF5RX13ZZ	Interstage	30,000	1,200	.5	1,600	170	50	5:1
TR-142	TF5RX16ZZ	Input	200,000	1,000	0	6,500	250	25	14.1:1
TR-143	TF5RX16ZZ	Input	200,000CT	1,000CT	0	6,500	250	25	14.1:1
TR-147	TF5RX20ZZ	Reactor	1 Hy		2	130			
TR-148	TF5RX20ZZ	Reactor	3 Hy		2	330			
TR-149	TF5RX20ZZ	Reactor	6 Hy		2	1,180			
TR-150	TF5RX20ZZ	Reactor	12 Hy		0	1,880			
TR-151	TF5RX20ZZ	Reactor	20 Hy		0	2,850			

TR-120 Transistor Interstage Transformer

1/700TH OF A POUND	
1 MILLIWATT OUTPUT	
PRIMARY IMPEDANCE	20,000 OHMS
SECONDARY IMPEDANCE	1,000 OHMS
PRIMARY DC RESISTANCE	2,200 OHMS
SECONDARY DC RESISTANCE	310 OHMS



OVERALL DIMENSIONS



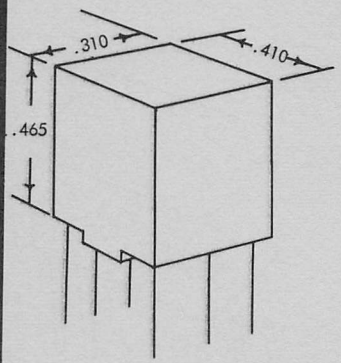
* Balanced Windings

Mil-T-27A

Molded - Printed Circuit -Transistor

Designed and built to meet MIL-T-27A Grade 5, Class R Specifications. These small Printed Circuit transistor transformers have high strength nickel alloy leads, base mounting pads, operating D.C. Voltage of 105 Volts, frequency range from 100 to 100,000 cycles and weigh only .1 oz. Units can be used for different impedances than specified, keeping in mind that the impedance ratio is constant.

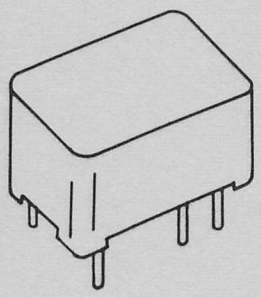
Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Resistance		Power In Milliwatts	Turns Ratio
			Primary	Secondary		Primary	Secondary		
27S103	TF5RX17ZZ	Output	120CT	3.2	10	17	.75	50	6.12:1
27S93	TF5RX17ZZ	Output	150CT	12	10	18	3.5	50	3.54:1
27S94	TF5RX17ZZ	Output	300CT	12	7	42	3.4	50	5:1
27S99	TF5RX17ZZ	Output	300CT	600	7	41	98	50	1:1.42
27S104	TF5RX17ZZ	Output	320CT	3.2	6	44	.77	50	10:1
27S88	TF5RX17ZZ	Output	500	50	3	60	8	50	3.16:1
27S100	TF5RX17ZZ	Output	500CT	600	3	67	98	50	1:1.1
27S90	TF5RX17ZZ	Output	600	3.2	3	70	.76	50	13.6:1
27S105	TF5RX17ZZ	Output	600CT	3.2	4.5	70	.85	50	13.6:1
27S95	TF5RX17ZZ	Output	600CT	12	4.5	70	3	50	7.07:1
27S111	TF5RX17ZZ	Output	600CT	600CT	3	72	92	50	1:1
27S106	TF5RX17ZZ	Output	800CT	3.2	4	107	.86	50	15.8:1
27S101	TF5RX17ZZ	Output	900CT	600	4	104	96	50	1.23:1
27S96	TF5RX17ZZ	Output	1,000CT	12	3.5	120	3	50	9.1:1
27S89	TF5RX17ZZ	Output	1,000	50	3	145	8	50	4.47:1
27S91	TF5RX13ZZ	Output	1,200	3.2	2	131	.76	50	19.3:1
27S107	TF5RX13ZZ	Output	1,200CT	3.2	3	131	.87	50	19.3:1
27S97	TF5RX13ZZ	Output	1,500CT	12	3	179	7.9	50	11.2:1
27S102	TF5RX13ZZ	Output	1,500CT	600	3	168	92	50	1.58:1
27S108	TF5RX13ZZ	Output	1,600CT	3.2	2.5	186	.8	50	22.3:1
27S98	TF5RX13ZZ	Output	7,500CT	12	1	796	2.9	50	25:1
27S109	TF5RX13ZZ	Output	8,000CT	3.2	1	790	.76	50	50:1
27S92	TF5RX13ZZ	Output	10,000	3.2	1	1,160	.81	50	56:1
27D39	TF5RX13ZZ	Driver	10,000CT	500CT	1	1,050	80	50	4.47:1
27D37	TF5RX13ZZ	Driver	10,000CT	1,200CT	1	1,050	200	50	2.89:1
27A112	TF5RX13ZZ	Interstage	10,000CT	1,500CT	1	1,050	300	50	2.58:1
27D38	TF5RX13ZZ	Driver	10,000CT	2,000CT	1	1,050	330	50	2.24:1
27S110	TF5RX13ZZ	Output or Isolation	10,000CT	10,000CT	1	1,200	1,200	50	1:1
27A110	TF5RX13ZZ	Interstage	25,000	1,000	.5	1,700	115	40	5:1
27A111	TF5RX13ZZ	Interstage	25,000CT	1,000CT	.5	1,700	115	40	5:1
27A108	TF5RX16ZZ	Input	50,000CT	1,000CT	0	3,800	75	25	7.07:1
27A109	TF5RX16ZZ	Input	200,000	1,000	0	5,300	100	10	14.1:1
27A107	TF5RX16ZZ	Input	200,000CT	1,000CT	0	5,300	100	10	14.1:1
27C79	TF5RX20ZZ	Audio Choke	6 Hy	–	2	1,700	–	–	–
27C81	TF5RX20ZZ	Audio Choke	3.5 Hy	–	2	1,040	–	–	–
27C80	TF5RX20ZZ	Audio Choke	1.25 Hy	–	2	180	–	–	–
27C82	TF5RX20ZZ	Audio Choke	.9 Hy	–	2	110	–	–	–
27C83	TF5RX20ZZ	Audio Choke	.3 Hy	–	4	44.5	–	–	–
27C84	TF5RX20ZZ	Audio Choke	.1 Hy	–	5	15	–	–	–



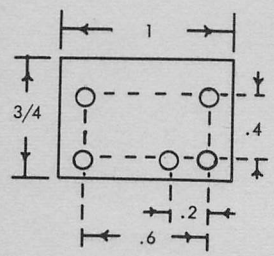
Molded - Printed Circuit -Transistor

Designed and built to meet MIL-T-27A Grade 5, Class R Specifications. Similar to the printed circuit units above but have a frequency range of from 50 cycles to 20,000 cycles. See drawing to the right for complete dimensional details. Weight .05 lbs. Units can be used for different impedances than specified, keeping in mind that the impedance ratio is constant.

Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Resistance		Power In Milliwatts	Turns Ratio
			Primary	Secondary		Primary	Secondary		
27A68	TF5RX17ZZ	Interstage	80CT 100CT	32 Split 40 Split	16	4.9	3.2	250	1.58:1
27A61	TF5RX11ZZ	Input	50 200	62,500 250,000	0	16	2,500	10	11.2:1
27A67	TF5RX17ZZ	Interstage	400CT 500CT	40 Split 50 Split	8	20	4.5	250	3.16:1
27A66	TF5RX17ZZ	Interstage	400CT 500CT	120 Split 150 Split	8	20	12.6	250	1.82:1
27A65	TF5RX17ZZ	Interstage or Isolation	400CT 500CT	400 Split 500 Split	8	20	45	250	1:1 or 2:1:1
27S52	TF5RX17ZZ	Output	500CT	3.2	0	15	.35	250	12.5:1
27S53	TF5RX17ZZ	Output	2,000CT 4,000CT	8 16	4 2	290	2	250	15.8:1
27S49	TF5RX13ZZ	Plate to Line	10,000 25,000	200 500	3 1.5	1,225	30	200	7.07:1
27A64	TF5RX13ZZ	Interstage	10,000	2,000CT	1	1,000	40	200	2.24:1
27A62	TF5RX15ZZ	Plate to Grid	10,000	90,000	.25	215	1,850	100	1:3
27A63	TF5RX13ZZ	Interstage	20,000 30,000	800 1,200	.5	450	32	200	5:1
27S50	TF5RX13ZZ	Output	30,000	50	1	1,850	3.8	200	24.5:1
27S51	TF5RX13ZZ	Output	100,000	60	.5	3,400	3.7	200	40.8:1
27C66	TF5RX20ZZ	Audio Inductor	50 Hy	–	1	2,675	–	–	–



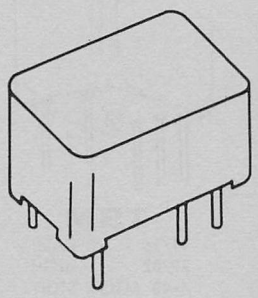
HEIGHT 23/32

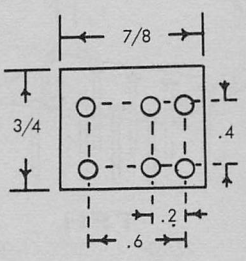


Mil-T-27A Steel Jacket Line

Molded-Printed Circuit

TRANSISTOR AND TUBE TYPE





Designed and built to meet MIL-T-27A Grade 5, Class R Specifications.
Similar to the printed circuit units on the previous page but have a frequency range of from 80 to 20,000 cycles.
See drawing to the left for complete dimensional details.
Units can be used for different impedances than specified, keeping in mind that the impedance ratio is constant.

Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Resistance		Power In Milliwatts	Turns Ratio
			Primary	Secondary		Primary	Secondary		
27A50	TF5RX10ZZ	Input	50 200	62,500 250,000	0	13.5	3,600	5	11.2:1
27S42	TF5RX17ZZ	Output	500 600	50 60	3.5	50	5	100	3.16:1
27S47	TF5RX17ZZ	Output Matching	500CT	600CT	10	26	70	100	1:1.1
27S43	TF5RX12ZZ	Output	1,000 1,200	50 60	3	90	5	100	4.45:1
27S44	TF5RX13ZZ	Output	1,200 1,500	3.2 4	3	70	.45	100	19.3:1
27S48	TF5RX13ZZ	Output	1,500CT	600CT	7	70	65	100	1.58:1
27S46	TF5RX13ZZ	Single or PP Output	7,500CT 9,400CT	3.2 4	4	770	.73	100	48.5:1
27S41	TF5RX13ZZ	Output	10,000	3.2	2	800	.65	100	56:1
27S40	TF5RX13ZZ	Output	10,000	16	2	800	2.7	100	25:1
27S37	TF5RX13ZZ	Plate to Line	10,000 25,000	200 500	3 1.5	2,500	34	100	7.07:1
27A55	TF5RX13ZZ	Interstage	10,000CT 25,000CT	200CT 500CT	2 1	650	22	100	7.07:1
27S45	TF5RX13ZZ	Output or Driver	10,000 12,500	500CT 600CT	2	800	95	100	4.47:1
27A58	TF5RX13ZZ	Interstage	10,000CT 12,000CT	1,500CT 1,800CT	4	800	300	100	2.58:1
27A53	TF5RX13ZZ	Interstage	10,000	2,000CT	1	1,200	45	100	2.24:1
27A59	TF5RX15ZZ	Interstage or Isolation	10,000CT 12,000CT	10,000CT 12,000CT	1	560	650	100	1:1
27A51	TF5RX15ZZ	Interstage	10,000	90,000	.25	710	3,150	30	1:3
27A52	TF5RX13ZZ	Interstage	20,000 30,000	800 1,200	.5	800	110	100	5:1
27A56	TF5RX13ZZ	Interstage	20,000CT 30,000CT	800CT 1,200CT	1	800	110	100	5:1
27S38	TF5RX13ZZ	Output	30,000	50	1	2,875	4.6	100	24.5:1
27A60	TF5RX13ZZ	Interstage	40,000CT 50,000CT	400 Split 500 Split	.5	1,900	43	100	10:1
27S39	TF5RX13ZZ	Output	100,000	60	.5	3,500	3.3	100	40.8:1
27A54	TF5RX16ZZ	Crystal to Transistor	200,000	1,000	0	4,000	190	5	14.1:1
27A57	TF5RX16ZZ	Crystal/Chopper	200,000CT	1,000CT	0	4,000	200	5	14.1:1
27C63	TF5RX20ZZ	Audio Inductor	50 Hy	–	1	4,400	–	–	–
27C64	TF5RX20ZZ	Audio Inductor	8 Hy 4 Hy	–	2 5	650	–	–	–
27C65	TF5RX20ZZ	Audio Inductor	3.5 Hy 1.5 Hy	–	2 5	160	–	–	–

Printed Circuit Audio Unit

HYPERMALLOY CASE

Designed and built to meet MIL-T-27A Grade 5, Class R Specifications.
This ultra miniature transformer has high shielding, extremely low insertion loss and a frequency range of 200 to 20,000 cycles.
Pin type terminals (.025 dia.) are strong enough to support the unit and are ideal for printed circuit applications.
Dimensions: 7/16 x 31/64 x 9/16 — Weight .2 oz.

Part No.	MIL-T-27A Classification	Typical Application	Impedance		Unbalanced Primary MADC	Resistance		Power In Milliwatts	Turns Ratio
			Primary	Secondary		Primary	Secondary		
27A69	TF5RX16ZZ	Input or Chopper	200,000	1,000	0	4,200	210	10	14.1:1

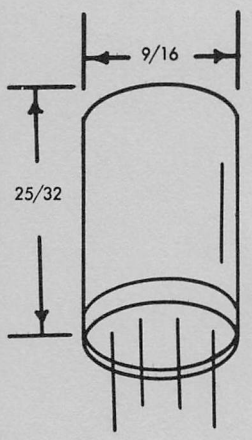
Mil-T-27A

Sub-Miniature Audio

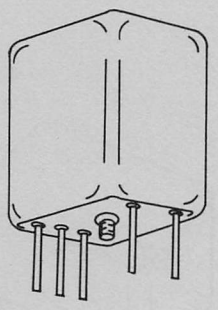
TRANSISTOR AND TUBE TYPE

Designed and built to meet MIL-T-27A. These units can be used for different impedances than specified, keeping in mind that the impedance ratio is constant.

Part No.	MIL-T-27A Classification	Application	Impedance In Ohms Primary	Impedance In Ohms Secondary	Unbalanced Primary MADC	Power Output In MW	Frequency Response ±3DB	Case Size
27A96	TF4QX16YY	Mike or V.C. to Transistor	30/12/4	1,000	0	1	40-20,000	TJZ
27A95	TF4QX10YY	Mike or V.C. to Grid	30/12/4	50,000	0	1	70-20,000	TJZ
27A16	TF4RX10YY	Input to Grid	50	62,500	0	20	100-15,000	TSM
27S21	TF4RX17YY	Transistor Output	500CT	50	3.5	30	250-15,000	TSM
27S22	TF4RX17YY	Transistor Output	500CT	600CT	10	30	250-15,000	TSM
27A94	TF4QX10YY	Line or Mike to Grid	600/250/50	60,000	0	1	70-20,000	TJZ
27S87	TF4QX21YY	Transistor to Line	1,000	50	5	1	100-10,000	TJZ
27S23	TF4RX13YY	Transistor Output	1,500CT	600CT	7	30	250-15,000	TSM
27S86	TF4RX13YY	Plate or Tr. to Tr. or Line	10,000	200	1	1	70-20,000	TJZ
27A28‡	TF4RX13YY	Transistor Interstage	10,000CT*	200CT*	2	100	250-20KC	TFH
27S19	TF4RX13YY	Single Plate to Line	10,000 to 25,000	200 to 500	3 1.5	20	250-15,000	TSM
27A18	TF4RX13YY	Transistor Interstage	10,000CT	1,200CT	2	30	250-15KC	TSM
27A19	TF4RX13YY	Transistor Interstage	10,000CT	2,000CT	2	30	250-15KC	TSM
27A27	TF4RX13YY	Isolation or Tr. Interstage	10,000CT	10,000CT	1	100	250-15,000	TSM
27S18	TF4RX15YY	Plate to Grid	10,000	90,000	0	20	250-15,000	TSM
27A97	TF4QX15YY	Plate to Grid(s)	15,000	135,000CT	1	1	70-15,000	TJZ
27A35‡	TF4RX13YY	Transistor Interstage	20,000CT*	800CT*	1	100	250-20,000	TFH
27A98	TF4QX15YY	Transistor Interstage	20,000	1,200/600/100	.5	1	70-15,000	TJZ
27A17	TF4RX15YY	Transistor Interstage	25,000	1,000	.5	10	250-15,000	TSM
27S20	TF4RX13YY	Plate to Low Imp.	30,000	50	1	30	250-15,000	TSM
27C39	TF4RX04YY	Split Inductor	Series Connected: 60MH @ 32MADC, 60 Ohms RDC Parallel Connected: 15MH @ 64MADC, 1.5Ohms RDC					TFH
27C40	TF4RX04YY	Split Inductor	Series Connected: 1H @ 8MADC, 100 Ohms RDC Parallel Connected: .25H @ 10MADC, 25 Ohms RDC					TFH
27C41	TF4RX04YY	Split Inductor	Series Connected: 2.4H @ 2MADC, 160 Ohms RDC Parallel Connected: .6H @ 4MADC, 40 Ohms RDC					TFH



TJZ



TSM

11/16 x 1/2 CASE
29/32 HIGH
4-40 MTG. STUD

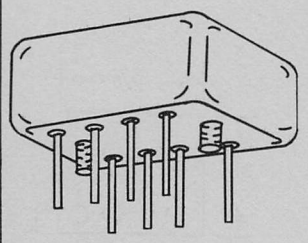
Compact Audio

TRANSISTOR AND TUBE TYPE

These units have been designed and built to meet all requirements of Grade 1 and Grade 4, MIL-T-27A specifications for Class R operation.

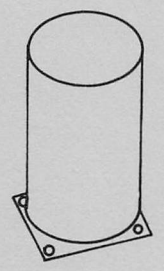
Part No.	MIL-T-27A Classification	Application	Impedance In Ohms Primary	Impedance In Ohms Secondary	Unbalanced Primary MADC	Power Output In Watts	Frequency Response ±2DB	Case Size
27S30	TF4RX17YY	Transistor to V.C.	20CT	4/8/16	1A(Bal.)	10	70-20,000	RC-62
27S29	TF4RX17YY	Transistor to V.C.	48CT	4/8/16	750(Bal.)	5	40-20,000	RC-50
27D36	TF4RX17YY	Transistor Driver	200CT	400CT*	20	1	40-20,000	RC-50
27A43	TF4RX10YY	Line to Grid	250 to 500CT	50,000 to 100,000CT	0	4MW	30-20,000	RC-50
27S26	TF4RX17YY	Transistor to V.C.	500CT	4/16*	20	1	40-20,000	RC-50
27A46	TF4RX17YY	Transistor to Line	500CT	500CT*	20	1	40-20,000	RC-50
27A48	TF4RX16YY	Mixing or Matching to Line or Transistor	600,500/333/250,200/150,125/50	600,500/333/250,200/150,125/50	0	30MW	20-50,000	RC-50
27A47	TF4RX13YY	Transistor Interstage	10,000CT*	2,000CT*	8	1	40-20,000	RC-50
27S24	TF4RX13YY	Plate to Line	15,000	500/125,▪ 200/50	8	200MW	50-20,000	RC-50
27A44	TF4RX15YY	Plate(s) to Grid(s)	15,000CT*	80,000CT*	0	15MW	30-20,000	RC-50
27A45	TF4RX15YY	Plate to Grid(s)	15,000	80,000CT*	8	200MW	100-20,000	RC-50
27S25	TF4RX13YY	PP Plates to Line	30,000CT*	500/125,▪ 200/50	0	80MW	30-20,000	RC-50
27C45	TF4RX04YY	Split Inductor	Series Connected: 4Hy. @ 50MADC, 100 Ohms RDC Parallel Connected: 1Hy. @ 100MADC, 25 Ohms RDC					RC-50
27C46	TF4RX04YY	Split Inductor	Series Connected: 40Hy. @ 15MADC, 1000 Ohms RDC Parallel Connected: 10Hy. @ 30MADC, 250 Ohms RDC					RC-50
27C44	TF4RX20YY	Audio Inductor	450Hy. @ 0MADC or 250Hy. @ 5MADC, 6000 Ohms RDC or 60Hy. @ 10MADC, 1500 Ohms RDC					RC-50

▪ 200 Ohm Termination can be used for 150 Ohms or 250 Ohms, 125/500 Ohm Termination for 150/600 Ohms.
* Split Winding
‡ Static Shielded



TFH

27/32 x 23/32 CASE
9/16 HIGH
1/2 MTG.CENTERS

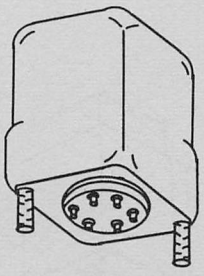


RC

Case	Base Dim. (SQ.)	Height	Mtg. Dim. (SQ.)	Weight Lbs.
RC-50	1 5/8	2 1/4	1 5/16	1/2
RC-62	1 13/16	2 1/2	1 1/2	1

Miniature Audio AF-1 CASE TRANSISTOR & TUBE TYPE

Designed and built to meet MIL-T-27A Grade 1, Class Q operation. These units can be used for different impedances than specified, keeping in mind that the impedance ratio is constant. The power output rating may be increased from that specified with some loss in frequency response. Magnetic shielded for - 45DB hum reduction.



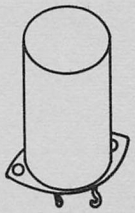
AF-1

3/4 x 3/4 CASE
1 1/8 HIGH
27/32 MTG. CENTERS

Part No.	MIL-T-27A Classification	Application	Impedance In Ohms Primary	Impedance In Ohms Secondary	Turns Ratio	Power Output In MW	Frequency Response ±3DB	Case Size
27A84‡	TF1QX10YY	Mike or V.C. to Grid	30/12/4	50,000	1:40.8	1	50-15,000	AF-1
27A87‡	TF1QX10YY	Mike or Line to Grid	200	500,000	1:50	10	200-10,000	AF-1
27A92	TF1QX17YY	Tr. or Line to Tr. or Line	500CT	500CT*	1:1	25	50-20,000	AF-1
27A90‡	TF1QX16YY	Line to Line	600/250/50	600/250/50	1:1	10	50-50,000	AF-1
27A93	TF1QX17YY	Transistor or Line to Tr.	600CT	2,000CT*	1:1.83	25	50-20,000	AF-1
27A81	TF1QX10YY	Line or Mike to Grid	600/250/50	15,000	1:5	1	60-15,000	AF-1
27A83	TF1QX10YY	Line or Mike to Grid(s)	600/250/50	60,000CT	1:10	1	60-15,000	AF-1
27A82‡	TF1QX10YY	Line or Mike to Grid	600/250/50	250,000	1:20.6	1	100-15,000	AF-1
27A91‡	TF1QX21YY	Hi. Imp. Isolation	5,000CT	5,000CT	1:1	10	60-15,000	AF-1
27A89	TF1QX13YY	Plate or Tr. to Tr.	10,000CT	2,000CT	2.24:1	10	50-20,000	AF-1
27S80	TF1QX16YY	Plate to Line	15,000	600/250/50	4.98:1	10	60-15,000	AF-1
27S81‡	TF1QX13YY	Plate to Line	15,000**	600/250/50	4.98:1	10	100-50,000	AF-1
27S83	TF1QX13YY	Transistor to Tr. or Line	15,000CT	600CT*	5:1	15	50-15,000	AF-1
27S85	TF1QX13YY	Transistor to Tr. or Line	15,000CT	600CT*	5:1	25	50-15,000	AF-1
27A85	TF1QX10YY	Plate to Grid	15,000	50,000	1:1.82	10	60-15,000	AF-1
27A86	TF1QX10YY	Plate to S. or PP Grid	15,000#	60,000CT	1:2	10	60-15,000	AF-1
27A15	TF1QX10YY	Plate or S. or PP Grid	15,000**	95,000CT	1:2.52	10	250-55,000	AF-1
27A88	TF1QX10YY	Plate to Grid	15,000	1 MEG.	1:8.2	10	150-15,000	AF-1
27S82	TF1QX16YY	S. or PP Plate to Line	20,000CT	600/250/50	5.76:1	10	40-30,000	AF-1
27S84	TF1QX13YY	Transistor to Line or Transistor	50,000CT @ .5MADC	600CT*	9.1:1	10	100-15,000	AF-1
27C67	TF1QX20YY	Coupling Reactor	50 Hy. @ .75 MADC @ 4,000 Ohms RDC					AF-1
27C68	TF1QX20YY	Coupling Reactor	8 Hy. @ 3 MADC or 2 Hy. @ 6 MADC @ 220 Ohms RDC					AF-1

Miniature Audio RC-25 CASE TRANSISTOR & TUBE TYPE

Designed and built to meet MIL-T-27A Grade 4, Class R operation. These units can be used for different impedance than specified, keeping in mind that the impedance ratio is constant.



RC-25

15/16 DIAMETER
1 7/16 HIGH
1 1/8 MTG. CENTERS

Part No.	MIL-T-27A Classification	Application	Impedance In Ohms Primary	Impedance In Ohms Secondary	Unbalanced Primary MADC	Power Output In MW	Frequency Response ±2DB	Case Size
27A22	TF4RX10YY	Mike or V.C. to Grid	30/12/4	50,000	0	1	50-12,000	RC-25
27A36	TF4RX11YY	Mike to Grid	82	135,000	50	63	250-8,000	RC-25
27A42	TF4RX17YY	Transistor Interstage	500CT*	150CT*	20	250§	100-20,000	RC-25
27A41	TF4RX17YY	Transistor Interstage	500CT*	500CT*	20	250§	100-20,000	RC-25
27A20	TF4RX10YY	Mike, Line to Grid	500CT/200CT/50	50,000	0	3.2	50-15,000	RC-25
27A21	TF4RX10YY	Mike, Line to Grid(s)	500CT/200CT/50*	50,000CT	0	3.2	50-15,000	RC-25
27A37	TF4RX16YY	Mixing or Matching	600CT*	600CT	0	6.3	50-10,000	RC-25
27A29	TF4RX16YY	Line to Line	600/250/50	600/250/50	0	10	50-15,000	RC-25
27A38	TF4RX16YY	Transistor Input	600CT*	2,000CT*	0	31	50-20,000	RC-25
27A32	TF4RX10YY	Input to Grid	600/150*	1 MEG.	0	10	300-2,500	RC-25
27S35	TF4RX13YY	Transistor to Line	1,500CT	500CT*	8	100	100-10,000	RC-25
27S36	TF4RX13YY	Transistor to V.C.	2,000CT 4,000CT	8 16	4	100	100-10,000	RC-25
27A39	TF4RX13YY	Transistor Interstage	10,000 CT	500CT*	4	100	100-10,000	RC-25
27A30	TF4RX15YY	Plate to Grid 10:1	10,000	1 MEG.	0	10	300-2,500	RC-25
27A33	TF4RX13YY	Transistor Interstage	10,000 CT*	2,000CT*	4	100	100-10,000	RC-25
27A34	TF4RX13YY	Transistor Interstage	10,000 CT*	4,000CT*	4	100	100-10,000	RC-25
27S27	TF4RX16YY	Plate to Line	15,000	600/250/50	0	10	50-15,000	RC-25
27S28	TF4RX12YY	Plate to Line	15,000	600/250/50	3	10	200-10,000	RC-25
27A23	TF4RX15YY	Plate to Grid	15,000	60,000	0	10	50-15,000	RC-25
27A24	TF4RX15YY	Plate to PP Grids	15,000	60,000CT	4	25	200-10,000	RC-25
27A25	TF4RX15YY	Plate to PP Grids	15,000	95,000CT	0	3.2	50-10,000	RC-25
27A26	TF4RX15YY	Plate to PP Grids	15,000	95,000CT*	4	12	200-10,000	RC-25
27S31	TF4RX13YY	Plate(s) to Line	20,000CT	600 CT*	4	125	200-10,000	RC-25
27A40	TF4RX13YY	Transistor-Interstage	50,000CT	500 CT*	2	100	100-20,000	RC-25
27A135	TF4RX21YY	Transistor-Input	100,000	50	0	300	200-10,000	RC-25
27C42	TF4RX04YY	Split Inductor	Series Connected: 60MHy. @ 80MADC, 4 Ohms RDC Parallel Connected: 15MHy. @ 160MADC, 1 Ohm RDC					RC-25
27C43	TF4RX04YY	Split Inductor	Series Connected: 1Hy. @ 20MADC, 60 Ohms RDC Parallel Connected: .25Hy. @ 40MADC, 15 Ohms RDC					RC-25
27C37	TF4RX20YY	Audio Inductor	300Hy. @ 0MADC or 50Hy. @ 3MADC, 6000 Ohms RDC					RC-25

* Split Winding
‡ Static Shielding
** 3MADC Primary Unbalance
# 4MADC Primary Unbalance
§ Available Power Output at 200 Cycles is 1 Watt

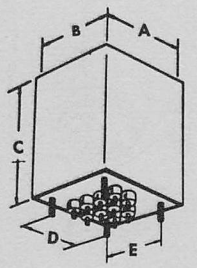
Mil-T-27A Steel Jacket Line

Input-Interstage

The transformers in this group meet all requirements of the MIL-T-27A specifications for the specified class of operation. All AJ, FA, GA, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all YY cases are listed at the side of this page. All units shielded for -45DB hum reduction unless otherwise specified.

Part No.	MIL-T-27A Classification	Application	Impedance In Ohms		Power Output In MW	Overall Turns Ratio	Frequency Response ±1 DB	Case Size	Wt. Lbs.
			Primary	Secondary					
27A75▲	TF4RX10YY	Mike to Grid	30	127,500	1	1:65.2	40-12,000§	YY-12	.7
27A114	TF4RX17AH	Transistor Interstage	100CT	10CT	250	3.16:1		AH	.3
27A119	TF4RX17EB	Transistor Interstage	100 @ 100 MADC	100CT	500	1:1		EB	1
27A115	TF4RX17AJ	Transistor Interstage	100 @ 100 MADC	1,000CT	250	1:3.16		AJ	.7
27A10	TF4RX11FA	Mike to Grid(s) (80 MADC)	125/50	125,000CT	10	1:32	200-3,500	FA	.75
27A127	TF4RX11YY	Mike to Grid(s) (80 MADC)	125/50	125,000CT	10	1:32	200-3,500	YY-17	.75
27A131	TF4SY21AG	Transistor Input or Interstage	125 @ 4 MADC	500CT	300	1:2	100-8,000§§	AG	.15
27A138	TF4QX11AH	Input (40 MADC)	150	100,000CT	10	1:25.8	300-3,000	AH	.3
27A132	TF4RX16AG	Tr. Interstage (3 MADC)	500CT	500CT	300	1:1		AG	.15
27A116	TF4RX17AJ	Tr. Interstage (12 MADC)	500CT	5,000CT	30	1:3.16		AJ	.7
27A136■	TF4RX17YY	Input	500CT/330/ 250/200CT/ 125/50	60,000*	63	1:11	30-20,000	YY-19	1.5
27A113	TF4RX17AG	Tr. Interstage (20 MADC)	600CT	10	50	7.75:1		AG	.15
27A05■	TF4RX16FA	Line to Line	600/150CT	600/150CT	31	1:1	30-15,000	FA	1.5
27A121■	TF4RX16YY	Line to Line	600/150CT	600/150CT	31	1:1	30-15,000	YY-18	1.5
27A130	TF4SY11AG	Transistor Input	600/50	20,000	60	1:5.8	400-7,500§	AG	.15
27A74■	TF1QX10YY	Line or Mike to Grid(s) (Pri. 10 MADC)	600*/250* 150/62.5	38,400CT*	100	1:8	30-20,000§	YY-13	1.25
27A04■	TF4RX10FA	Line to S. or PP Grids	600/150*	50,000*	31	1:9	30-15,000	FA	1.5
27A120■	TF4RX10YY	Line to S. or PP Grids	600/150*	50,000*	31	1:9	30-15,000	YY-18	1.5
27A07■	TF4RX10FA	Low Imped. to Grid	600/250/ 150/50	50,000*	31	1:9	30-15,000	FA	1.5
27A123■	TF4RX10YY	Low Imped. to Grid	600/250/ 150/50	50,000*	31	1:9	30-15,000	YY-18	1.5
27A71‡	TF1QX10YY	Univ. Line or Mike to Grid	600*/250* 150/62.5	77,000	10	1:11.3	20-20,000§	YY-2	.5
27A70▲	TF1QX10YY	Univ. Line or Mike To Grid. Static Shielded	600*/250* 150/62.5	77,000	10	1:11.3	20-20,000§	YY-12	.75
27A09	TF4RX10AJ	Line to S. or PP Grids	600/150	100,000*	10	1:13	200-3,500	AJ	.75
27A126	TF4RX10YY	Line to S. or PP Grids	600/150	100,000*	10	1:13	200-3,500	YY-10	.75
27A139	TF4RX10YY	Line to S. or PP Grids	600,500CT/330/ 250/200CT/ 150,125/50	100,000*	15	1:13	30-15,000	YY-8	.25
27A14	TF4RX10YY	Line to S. or PP Grids	600*/250* 150/62.5	117,600CT	10	1:14	30-15,000	YY-8	.5
27A76	TF1QX10YY	Line to S. or PP Grids	600*/250* 150/62.5	117,600*	100	1:14	20-20,000§	YY-12	.75
27A73■	TF1QX10YY	Line to S. or PP Grids Static Shielded	600*/250* 150/62.5	117,600CT	10	1:14	20-20,000§	YY-12	.75
27A72▲	TF1QX10YY	Line to S. or PP Grids Static Shielded	600*/250* 150/62.5	117,600CT	10	1:14	20-20,000§	YY-13	1
27A117	TF4RX17AG	Tr. Interstage (10 MADC)	1,000	200CT	50	2.24:1		AG	.15
27A118	TF4RX12AG	Tr. Interstage (5 MADC)	2,000	200CT	50	3.16:1		AG	.15
27A129	TF4SY21AG	Tr. Interstage (5 MADC)	10,000	2,000	150	2.24:1	100-8,000§§	AG	.15
27A08■	TF4RX10FA	Plate to S. or PP Grids	10,000	50,000*	31	1:2.24	30-15,000	FA	1.5
27A124■	TF4RX10YY	Plate to S. or PP Grids	10,000	50,000*	31	1:2.24	30-15,000	YY-18	1.5
27A140	TF4RX10AJ	Plate to S. or PP Grids	10,000	90,000CT	2 Watts	1:3	50-10,000§	AJ	.2
27A13	TF4RX10YY	Plate to Grid(s) (6 MADC)	15,000	60,000*	25	1:4	30-15,000	YY-12	1.1
27A77	TF1QX10YY	Plate to Grid	15,000	110,000	40	1:2.7	20-20,000§	YY-12	.65
27A79	TF1QX10YY	Plate to S. or PP Grids	15,000	111,000CT	26	1:2.72	20-20,000§	YY-2	.35
27A78	TF1QX10YY	Plate to S. or PP Grids	15,000	111,000CT**	75	1:2.72	20-20,000§	YY-12	.65
27A80	TF4RX19FA	Plate(s) to Grid(s)	20,000*	20,000*	3 Watts	1:1	20-20,000§	FA	2
27A125	TF4RX19FA	Plate(s) to Grid(s)	20,000*	20,000*	3.1 Watts	1:1	30-15,000	FA	2
27A06■	TF4RX15FA	Plate(s) to Grid(s)	20,000*	50,000*	31	1:1.58	30-15,000	FA	1.5
27A122■	TF4RX15YY	Plate(s) to Grid(s)	20,000*	50,000*	31	1:1.58	30-15,000	YY-18	1.5
27A11	TF4RX15YY	Plate(s) to Grid(s)	20,000*	60,000*	125	1:1.71	30-15,000	YY-9	.75
27A12▲	TF4RX15YY	Plate(s) to Grid(s)	20,000*	80,000*	31	1:2	30-15,000	YY-9	.75

■ This unit shielded for -70 DB hum reduction
§ Response at ±3 DB
‡ Static shielded
Δ This unit shielded for -90 DB hum reduction
§§ Response at ±2 DB
** Balanced Parallel Windings
* Split Winding



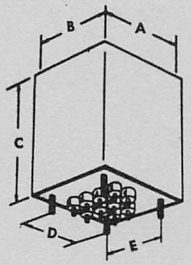
MIL-T-27A
FOR AG, AH, AJ, EB, FA
SEE PAGE 27

	A	B	C	D	E
YY-2	1 1/4	1 1/16	2 1/4	1 3/16	—
YY-8	1 1/2	1 1/2	2	1	1
YY-9	1 1/2	1 1/2	2 1/2	1	1
YY-10	1 35/64	1 35/64	2 9/64	1	1
YY-12	1 3/4	1 7/16	2 1/2	1 1/2	—
YY-13	2	1 5/8	2 3/4	1 1/2	—
YY-17	2.241	2.101	2.680	1 9/16	1 3/8
YY-18	2.241	2.101	2.930	1 9/16	1 3/8
YY-19	2 5/16	2 1/16	3 1/8	1 13/16	1 3/8

Outputs

The transformers in this group meet all requirements of the MIL-T-27A specifications for their specified class of operation. All AJ, FA, GA, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all the YY cases are listed at the side of this page. All units shielded for -45DB hum reduction unless otherwise specified.

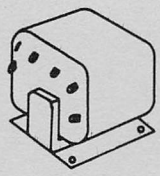
Part No.	MIL-T-27A Classification	Application	Impedance In Ohms Primary	Impedance In Ohms Secondary	Primary MADC	Power Output In Watts	Frequency Response ±1 DB	Case Size	Wt. Lbs.
27S116	TF4RX17AJ	Tr. to Voice Coil	20CT	8	500	10		AJ	.7
27S115	TF4RX17FA	Tr. to Voice Coil	48CT	8/16	275	5		FA	1.5
27S78	TF1QX16YY	Output-Line to Line	600*/250* 150/62.5	600*/250* 150/62.5	0	100MW	10-30,000§	YY-7	.5
27S77■	TF1QX16YY	Output-Line to Line	600*/250* 150/62.5	600*/250* 150/62.5	0	100MW	10-30,000§	YY-12	.75
27S79■	TF1QX16YY	Output-Line to Line Bal. resistance & capacity Static Shielded	600*/250* 150/62.5	600*/250* 150/62.5	0	50MW	20-20,000	YY-13	1.25
27S113	TF4RX17AG	Tr. to Voice Coil	1,000	4/8/16	10	200MW		AG	.2
27S114	TF4RX12AG	Tr. to Voice Coil	2,000CT	4/8/16	-	200MW		AG	.2
27S67	TF4RX13LA	HiFi Output With Screen Taps	4,000* 1,000/445*	4/8/16	200	65	15-30,000§	LA	11.2
27S68	TF4RX13LA	HiFi Output With Screen Taps	4,000* 1,000/445*	125/250/500	200	65	15-30,000§	LA	11.25
27S66	TF4RX13LA	HiFi Output With Screen Taps	4,500*	4/8/16	180	55	15-30,000§	LA	11.1
27S70	TF4RX13YY	Plate to Line or Voice Coil	5,000	4/8/16/ 250/500	40	5	70-15,000§	YY-14	.75
27S15	TF4RX13GA	Plate to Line or Voice Coil	5,000	4/8/16/ 150/600	55	5	200-3,500§	GA	2.25
27S122	TF4RX13YY	Plate to Line or Voice Coil	5,000	4/8/16/ 150/600	55	5	200-3,500§	YY-21	2.25
27S12	TF4RX13JA	PP Plates to Line or V.C. +10% Feedback Winding	5,000CT	4/8/16/ 150/600	120	20	50-10,000§§§	JA	6.5
27S60	TF4RX13JB	PP Plates to Voice Coil	5,000*	4/8/16	80	20	15-30,000§	JB	5
27S11	TF4RX13JA	PP Plates to Line or Voice Coil	5,000/3,000*	4/8*/16* 150/600*		15	30-15,000	JA	6
27S121	TF4RX13YY	PP Plates to Line or Voice Coil	5,000/3,000*	4/8*/16* 150/600*		15	30-15,000	YY-33	6
27S14	TF4RX13MA	PP Plates to Line or V.C. +10% Feedback Winding	6,000CT	4/8/16/ 150/600	250	30	50-10,000§§§	MA	9
27S64	TF4RX13KB	HiFi Output With Screen Taps	6,600* or 1,650*	4/8/16	80	25	10-50,000§	KB	7
27S65	TF4RX13KB	HiFi Output With Screen Taps	6,600* or 1,650*	125/250/500	80	25	10-50,000§	KB	7.5
27S09	TF4RX13JA	PP Plates to Line	2,500CT	600/150*	-	20	30-15,000	JA	6
27S119	TF4RX13YY	PP Plates to Line	2,500CT	600/150*	-	20	30-15,000	YY-33	6
27S16	TF4RX13GA	Plate to Line or Voice Coil	8,000	4/8/16/ 150/600	55	5	200-3,500	GA	2.25
27S123	TF4RX13YY	Plate to Line or Voice Coil	8,000	4/8/16/ 150/600	55	5	200-3,500	YY-21	2.25
27S56	TF4RX13JB	PP Plates to Voice Coil	8,000*	4/8/16	50	15	15-30,000	JB	5.12
27S57	TF4RX13JB	PP Plates to Voice Coil	8,000*	125/250/600	50	15	15-30,000	JB	5.12
27S58	TF4RX13JB	PP Plates to Voice Coil With Screen Taps	8,000* 2,000*	4/8/16	50	15	15-30,000§	JB	5
27S59	TF4RX13JB	PP Plates to Voice Coil With Screen Taps	8,000* 2,000*	125/250/600	50	15	15-30,000§	JB	5
27S61	TF4RX13KB	PP Plates to Voice Coil With Screen Taps	8,000*	4/8/16*	100	25	10-50,000§	KB	7.5
27S72	TF4RX13GA	PP Plates to Line or Voice Coil	9,000CT	4/8/16/ 250/500	120	25	70-20,000§	GA	3.12
27S125	TF4RX13GA	PP Plates to Line	9,000CT	500	90	20	50-10,000	GA	3
27S112	TF4RX12AG	Transistor to Voice Coil	9,800	15	2	50MW		AG	.3
27S126	TF5RX16ZZ	Plate to Line	10,000CT	150CT	0†	63MW	300-3,000§§§	ZZ	.2
27S69	TF1QX13YY	Plate to Line	10,000	600*	10	2	150-15,000	YY-3	.4
27S10	TF4RX13HA	PP Plates to Line or Voice Coil	10,000*	4/8*/16*/ 150/600*		5	30-15,000	HA	4
27S120	TF4RX13YY	PP Plates to Line or Voice Coil	10,000*	4/8*/16*/ 150/600*		5	30-15,000	HA	4
27S71	TF4RX13EB	PP Plates to Line or Voice Coil	10,000CT	4/8/16/ 250/500	50	10	100-25,000	EB	1.12
27S13	TF4RX13JA	Plates to Line or V. C. +10% Feedback Winding	10,000CT	4/8/16/ 150/600	200	15	50-10,000§§§	JA	5
27S62	TF4RX13KB	Plates to Voice Coil With Screen Taps	10,000*	4/8/16	100	25	15-30,000§	KB	7.12
27S63	TF4RX13KB	Plates to Line With Screen Taps	10,000*	125/250/500	100	25	15-30,000§	KB	7.5



MIL-T-27A

FOR AG, AJ, EB, FA, GA, HA, JA, JB, KB, LA, MA
SEE PAGE 27

	A	B	C	D	E
YY-7	1 1/2	1 1/4	2 3/8	1 15/32	—
YY-12	1 3/4	1 7/16	2 1/2	1 1/2	—
YY-13	2	1 5/8	2 3/4	1 1/2	—
YY-14	1 5/8	1 5/8	2 3/8	1 5/8	—
YY-21	2.521	2.381	3.049	1 13/16	1 11/16
YY-33	3.667	3.292	4.305	2 5/8	2 3/8



ZZ

2 3/8 WIDE
1 1/2 DEEP
1 1/2 HIGH
2 MTG.CENTERS

§ Response at ± 3 DB
§§§ Response at ± 1/2 DB
† Balanced MADC
* Split Winding
■ This unit shielded for -70 DB hum reduction

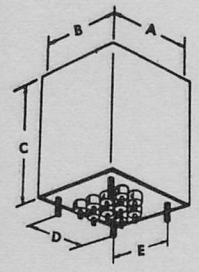
CONTINUED NEXT PAGE

Mil-T-27A

Outputs

continued

Part No.	MIL-T-27A Classification	Application	Impedance In Ohms Primary	Impedance In Ohms Secondary	Primary MADC	Power Output In Watts	Frequency Response ±1 DB	Case Size	Wt. Lbs.
27S07	TF4RX13FA	Plate to Line	15,000	600*	10	31MW	30-15,000	FA	2.25
27S117	TF4RX13YY	Plate to Line	15,000	600*	10	31MW	30-15,000	YY-21	2.25
27S73	TF1QX16YY	Plate to Line	15,000	600*/250*/ 150/62.5		20MW	20-20,000§	YY-2	.3
27S74	TF1QX13YY	Plate to Line	15,000	600*/250*/ 150/62.5	5	200MW	40-15,000	YY-13	1.15
27S17■	TF4RX13YY	Plate to Line	15,000	600/250/ 150/62.5	10	400MW	30-15,000	YY-9	.75
27S75	TF1QX13YY	PP Plates to Line	20,000*	600*/250*/ 150/62.5		400MW	20-20,000§	YY-12	.85
27S76▲	TF1QX13YY	PP Plates to Line	20,000*	600*/250*/ 150/62.5		30MW	20-20,000§	YY-12	.85
27S08	TF4RX13GA	PP Plates to Line	20,000*	600*		1	30-15,000	GA	3
27S118	TF4RX13YY	PP Plates to Line	20,000*	600*		1	30-15,000	YY-27	3
27S54	TF4RX13FA	PP Plates to Voice Coil	20,000*	4/8/16	20	5	40-20,000§	FA	2
27S55	TF4RX13FA	PP Plates to Line	20,000*	600CT/250CT/ 150/62.5	20	5	40-20,000§	FA	2



MIL-T-27A

FOR FA, GA, HA, JA SEE PAGE 27

Drivers

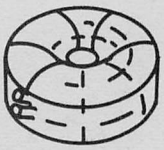
The transformers in this group meet all requirements of the MIL-T-27A specifications for their specified class of operation. All AJ, FA, GA, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all the YY cases are listed at the side of this page. All units shielded for -45DB hum reduction unless otherwise specified.

Part No.	MIL-T-27A Classification	Application	Primary Impedance	Primary MADC	Power Output In Watts	Turns Ratio Pri: 1/2 Sec.	Frequency Response ± 1 DB	Case Size	Wt. Lbs.
27D32	TF4RX12GA	PP Plates to Grid 6N7,6A6,6J5,6C4, etc.	20,000CT	10	3	3:1	50-10,000	GA	2.25
27D30	TF4RX12YY	PP Plates to Grid 6N7,6A6,6J5,6C4, etc.	20,000CT	10	3	3:1	50-10,000	YY-21	2.25
27D33	TF4RX12GA	PP Plates to Grid 6N7,6A6,6J5,6C4, etc.	20,000CT	25	5	3:1	50-10,000	GA	2.5
27D31	TF4RX12YY	PP Plates to Grid 6N7,6A6,6J5,6C4, etc.	20,000CT	25	5	3:1	50-10,000	YY-22	2.5
27D35	TF4RX12HA	PP Plates to PP Grids 2A3,6B4G, etc.	5,000CT	100	10	3:1	200-3,500	HA	3.5
27D34	TF4RX12JA	PP Plates to Grid 6B4,45,2A3,6L6, etc.	10,000/ 5,000CT	100	10	5:1	50-10,000	JA	4.5

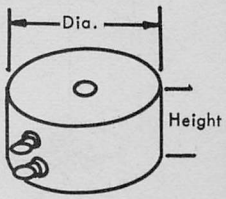
■ This unit shielded for -70 DB hum reduction
▲ This unit shielded for -90 DB hum reduction
* Split Winding
§ Response at ±3 DB

	A	B	C	D	E
YY-2	1 1/4	1 1/16	2 1/4	1 3/16	—
YY-9	1 1/2	1 1/2	2 1/2	1	1
YY-12	1 3/4	1 7/16	2 1/2	1 1/2	—
YY-13	2	1 5/8	2 3/4	1 1/2	—
YY-21	2.521	2.381	3.049	1 13/16	1 11/16
YY-22	2.521	2.381	3.299	1 13/16	1 11/16
YY-27	2.861	2.711	3.492	2	1 7/8

PLASTIC COATED WITH LEADS



MOLDED WITH TERMINALS



These high Q Toroid Inductors have the highest temperature and inductive stability available to the industry. Each coil has a minimum inductance tolerance of plus or minus 2 percent. Available in either plastic coated units with leads (TOR 800 and TOR 900 series) or in epoxy molded MIL-T-27A encapsulation (TOR 700 and TOR 7100 series).

Toroid Inductors

PLASTIC-COATED
Diameter 3/4
Height 3/8

MOLDED
Diameter 3/4
Height 3/8
Hole Dia. .116

Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-700	TOR-800	1	2.8	150
TOR-701	TOR-801	2	4.1	108
TOR-702	TOR-802	3	5.1	87
TOR-703	TOR-803	4	6.0	76
TOR-704	TOR-804	5	6.8	68
TOR-705	TOR-805	7	8.2	57
TOR-706	TOR-806	10	10	48
TOR-707	TOR-807	15	12.5	39
TOR-708	TOR-808	20	14.5	34
TOR-709	TOR-809	25	16.5	30
TOR-710	TOR-810	30	18	27.6
TOR-711	TOR-811	40	27	24
TOR-712	TOR-812	50	30	22
TOR-713	TOR-813	60	40	19.5
TOR-714	TOR-814	70	43	18
TOR-715	TOR-815	100	66	15
TOR-716	TOR-816	150	100	12.5
TOR-717	TOR-817	200	115	11
TOR-718	TOR-818	250	167	9.6
TOR-719	TOR-819	300	180	8.8
TOR-720	TOR-820	400	265	7.6
TOR-721	TOR-821	500	295	7
TOR-722	TOR-822	700	440	5.8
TOR-723	TOR-823	1,000	650	4.8

PLASTIC-COATED
Diameter 1
Height 3/8

MOLDED
Diameter 1 1/16
Height 1/2
Hole Dia. .144

Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-748	TOR-848	1	.40	270
TOR-749	TOR-849	2	.58	192
TOR-750	TOR-850	3	.73	157
TOR-751	TOR-851	4	.85	135
TOR-752	TOR-852	5	1.20	121
TOR-753	TOR-853	7	1.42	102
TOR-754	TOR-854	8	2	95
TOR-755	TOR-855	10	2.20	86
TOR-756	TOR-856	15	3.40	70
TOR-757	TOR-857	20	5	60
TOR-758	TOR-858	25	5.8	54
TOR-759	TOR-859	30	7.9	50
TOR-760	TOR-860	40	11.4	43
TOR-761	TOR-861	50	12.8	38
TOR-762	TOR-862	70	19	32
TOR-763	TOR-863	80	29.5	29
TOR-764	TOR-864	100	30	27
TOR-765	TOR-865	150	46	22
TOR-766	TOR-866	200	52	19
TOR-767	TOR-867	250	73	17
TOR-768	TOR-868	300	80	16
TOR-769	TOR-869	400	115	14
TOR-770	TOR-870	500	126	12
TOR-771	TOR-871	600	178	11
TOR-772	TOR-872	700	193	10
TOR-773	TOR-873	800	300	9
TOR-774	TOR-874	1,000	297	8.6

PLASTIC-COATED
Diameter 1 1/4
Height 5/8

MOLDED
Diameter 1 5/16
Height 23/32
Hole Dia. .173

Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-724	TOR-824	1	.57	680
TOR-725	TOR-825	2	.82	480
TOR-726	TOR-826	3	.98	396
TOR-727	TOR-827	4	1.10	342
TOR-728	TOR-828	5	1.35	306
TOR-729	TOR-829	7	1.50	260
TOR-730	TOR-830	10	2	217
TOR-731	TOR-831	15	3	177
TOR-732	TOR-832	20	4.3	153
TOR-733	TOR-833	25	4.8	137
TOR-734	TOR-834	30	6.9	125
TOR-735	TOR-835	40	7.2	108
TOR-736	TOR-836	50	8	97
TOR-737	TOR-837	60	15.5	88
TOR-738	TOR-838	70	16.8	82
TOR-739	TOR-839	100	26.0	68
TOR-740	TOR-840	150	38.5	56
TOR-741	TOR-841	200	44.5	48
TOR-742	TOR-842	250	64	43
TOR-743	TOR-843	300	72	40
TOR-744	TOR-844	400	103	34
TOR-745	TOR-845	500	118	31
TOR-746	TOR-846	700	173	26
TOR-747	TOR-847	1,000	245	22

PLASTIC-COATED
Diameter 1 1/4
Height 5/8

MOLDED
Diameter1 5/16
Height 23/32
Hole Dia. .173

Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-775	TOR-875	1	.40	520
TOR-776	TOR-876	2	.56	368
TOR-777	TOR-877	3	.70	300
TOR-778	TOR-878	4	.82	260
TOR-779	TOR-879	5	.92	233
TOR-780	TOR-880	7	1.05	195
TOR-781	TOR-881	10	1.30	165
TOR-782	TOR-882	15	1.60	134
TOR-783	TOR-883	20	1.85	116
TOR-784	TOR-884	30	2.85	95
TOR-785	TOR-885	40	4.2	82
TOR-786	TOR-886	50	4.6	74
TOR-787	TOR-887	70	7.0	62
TOR-788	TOR-888	100	8.0	52
TOR-789	TOR-889	200	25	37
TOR-790	TOR-890	250	28	33
TOR-791	TOR-891	300	38.2	30
TOR-792	TOR-892	400	44.0	26
TOR-793	TOR-893	500	63.5	23
TOR-794	TOR-894	600	71	21
TOR-795	TOR-895	700	80	19.5
TOR-796	TOR-896	1,000	113	16.5
TOR-797	TOR-897	1,500	175	13.5
TOR-798	TOR-898	2,000	243	11.6
TOR-799	TOR-899	3,000	370	9.5
TOR-7100	TOR-900	4,000	435	8.2
TOR-7101	TOR-901	5,000	645	7.4
TOR-7102	TOR-902	7,000	780	6.2
TOR-7103	TOR-903	10,000	1,190	5.2

PLASTIC-COATED
Diameter1 15/16
Height 7/8

MOLDED
Diameter 2
Height 1
Hole Dia. .173

Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-7104	TOR-904	10	.92	262
TOR-7105	TOR-905	20	1.30	185
TOR-7106	TOR-906	30	1.65	150
TOR-7107	TOR-907	40	1.90	130
TOR-7108	TOR-908	50	3.5	116
TOR-7109	TOR-909	60	4.0	106
TOR-7110	TOR-910	80	4.60	92
TOR-7111	TOR-911	100	5.2	82
TOR-7112	TOR-912	120	5.5	75
TOR-7113	TOR-913	150	6.2	67
TOR-7114	TOR-914	200	7.50	58
TOR-7115	TOR-915	250	10.3	52
TOR-7116	TOR-916	300	12	47
TOR-7117	TOR-917	400	16.5	41
TOR-7118	TOR-918	500	23.6	37
TOR-7119	TOR-919	700	30.0	31
TOR-7120	TOR-920	1,000	45	26
TOR-7121	TOR-921	2,000	100	18.4
TOR-7122	TOR-922	3,000	151	15
TOR-7123	TOR-923	4,000	175	13
TOR-7124	TOR-924	5,000	250	11.6
TOR-7125	TOR-925	7,000	380	9.8
TOR-7126	TOR-926	10,000	500	8.2
TOR-7127	TOR-927	20,000	1,000	5.8
TOR-7128	TOR-928	30,000	1,500	4.7
TOR-7129	TOR-929	40,000	1,850	4.1

Chokes

Designed and built to meet MIL-T-27A specifications. These units provide the maximum inductance at the given current rating in a minimum size. All AJ, FA, GA, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all YY cases are listed at the side of this page.

Also see Page 42 for Dual Winding Chokes.

Part No.	MIL-T-27A Classification	Inductance In Henrys	MADC	Resistance In Ohms	Test Volts RMS	Case Size	Wt. Lbs.
27C38	TF4RX20YY	100 or 50	0 1	4,400	100	TSM	.8 oz.
27C67	TF1QX20YY	50	.75	4,000	500	AF-1	.1
27C66	TF5RX20ZZ	50	1	2,675	100	Note 1	.05
27C63	TF5RX20ZZ	50	1	4,400	100	Note 2	.04
27C82	TF5RX20ZZ	.9	2	110	500	Note 3	.1 oz.
27C80	TF5RX20ZZ	1.25	2	180	500	Note 3	.1 oz.
27C65	TF5RX20ZZ	3.5 or 1.5	2 5	160	100	Note 2	.04
27C81	TF5RX20ZZ	3.5	2	1,040	500	Note 3	.1 oz.
27C79	TF5RX20ZZ	6	2	1,700	500	Note 3	.1 oz.
27C64	TF5RX20ZZ	8 or 4	2 5	650	100	Note 2	.04
27C68	TF1QX20YY	8 or 2	3 6	220	500	AF-1	.1
27C83	TF5RX20ZZ	.3	4	44	500	Note 3	.1 oz.
27C84	TF5RX20ZZ	.1	5	15	500	Note 3	.1 oz.
27C11	TF4RX04AJ	15	10	680	1,000	AJ	1
27C85	TF4RX04YY	15	10	680	1,000	YY-10A	1
27C111	TF4RX04LA	95	14	1,600	12,500	LA	10.5
27C12	TF4RX04AJ	15	20	680	1,000	AJ	1
27C86	TF4RX04YY	15	20	680	1,000	YY-10A	1
27C35	TF4RX04EB	30	20	1,000	2,500	EB	1.25
27C47	TF4RX04AH	20 or 18 or 14.5 or 10	20 25 30 35	925	1,000	AH	.25
27C112	TF4RX04YY	10	30	350	1,500	YY-5	1
27C100	TF4SX04AH	2*	40	190	2,500	AH	.25
27C70	TF4RX04YY	4	40	375	1,500	YY-3	.35
27C113	TF4RX04YY	8	40	400	1,780	YY-11	1
27C13	TF4RX04FB	15	40	475	2,500	FB	1.5
27C87	TF4RX04YY	15	40	475	2,500	YY-17	1.5
27C32	TF4RX04FB	20	40	350	2,500	FB	1.75
27C114	TF4RX04YY	20	40	350	2,500	YY§	1.75
27C118	TF4RX04YY	5.5 or 4	50 75	360	1,500	YY-4	1.25
27C115	TF4RX04YY	10	50	300	5,000	YY-41	3.5
27C33	TF4RX04EB	12	50	385	2,500	EB	1.25
27C26	TF4SX04AH	2*	55	160	2,500	AH	.25
27C105	TF4SX04YY	2*	55	160	2,500	YY-1	.25
27C14	TF4RX04FB	10	55	230	2,500	FB	1.75
27C116	TF4RX04EB	10	55	250	1,500	EB	1.12
27C88	TF4RX04YY	10	55	230	2,500	YY-18	1.75
27C15	TF4RX04FB	15	55	420	2,500	FB	2
27C89	TF4RX04YY	15	55	420	2,500	YY-18	2
27C27	TF4SX04AH	2*	70	165	2,500	AH	.5
27C101	TF4SX04AJ	2*	70	165	2,500	AJ	.75
27C117	TF4SY04EB	2*	70	100	1,500	EB	1.12
27C106	TF4SX04YY	2*	70	165	2,500	YY-6	.5
27C71	TF4RX04YY	3*	70	225	1,500	YY-14	.75
27C48	TF4RX04GB	13 or 11.5 or 9.5 or 7	70 85 105 125	215	2,500	GB	2.5
27C72	TF4RX04GB	15	70	300	2,500	GB	2.4
27C119	TF4RX04YY	6	75	280	500	YY-26	1.2
27C120	TF4RX04GA	15	75	270	1,500	GA	2.5
27C121	TF4RX04YY	12	80	300	1,500	YY-24	2.5
27C102	TF4SX04AH	2*	85	135	2,500	AH	.375
27C16	TF4RX04GB	10	85	175	2,500	GB	2.5
27C90	TF4RX04YY	10	85	175	2,500	YY-21	2.5
27C17	TF4RX04GB	15	85	285	2,500	GB	2.75
27C91	TF4RX04YY	15	85	285	2,500	YY-21	2.75
27C122	TF5RX04ZZ	7	90	270	1,500	ZZ	1
27C123	TF4RX04GB	10†	90	175	1,500	GB	2

* Designed for 400 Cycle Operation

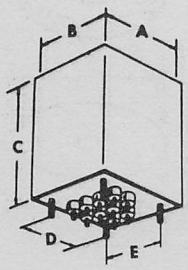
† Constructed with Hum Bucking Windings

§ This unit is in FB case but has terminals opposite end of mounting studs

Note 1: Molded to 3/4 x 1 x 23/32 See Page 32 for the complete line of this size

Note 2: Molded to 3/4 x 7/8 x 9/16 See Page 33 for the complete line of this size

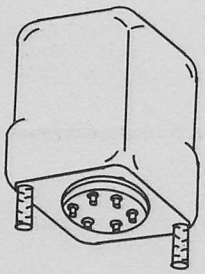
Note 3: Molded to .465 x .310 x .410 See Page 32 for the complete line of this size



MIL-T-27A

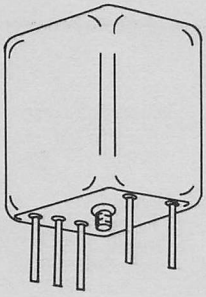
FOR AJ, AH, EB, FB, GB, LA
SEE PAGE 27

	A	B	C	D	E
YY-1	1.198	1.198	2	1 5/32	-
YY-3	1 5/16	1 5/16	1 3/4	1 11/32	-
YY-4	1 7/16	1 7/16	2 1/2	1 3/8	-
YY-5	1 7/16	1 7/16	2 1/2	1	1
YY-6	1.361	1.361	2.037	1 5/16	-
YY-10A	1 35/64	1 35/64	1.955	1	1
YY-11	1 9/16	1 9/16	3	1	1
YY-14	1 5/8	1 5/8	2 3/8	1 5/8	-
YY-17	2.241	2.101	2.680	1 9/16	1 3/8
YY-18	2.241	2.101	2.930	1 9/16	1 3/8
YY-21	2.521	2.381	3.049	1 13/16	1 11/16
YY-24	2 9/16	2 3/16	4	1 3/4	1 3/4
YY-26	1 13/16	1 11/16	2 1/8	2 1/8	1/2
YY-41	4 1/8	3	3 1/8	3 5/8	2



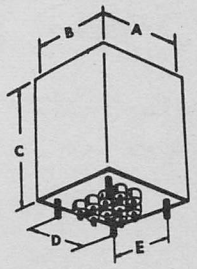
AF-1

3/4 x 3/4 CASE
1 1/8 HIGH
27/32 MTG. CENTERS



TSM

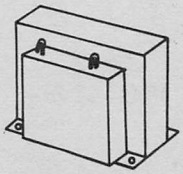
11/16 x 1/2 CASE
29/32 HIGH
4-40 MTG. STUD



MIL-T-27A

FOR AJ, EB, GA, GB, HB, JB, KB, LA, LB, MB, OA
SEE PAGE 27

	A	B	C	D	E
YY-18	2.241	2.101	2.930	1 9/16	1 3/8
YY-20	2 1/2	2 3/16	1 7/8	1 3/4	1 3/8
YY-25	2 3/4	2 3/8	3 3/16	2 1/8	1 11/16
YY-27	2.861	2.711	3.492	2	1 7/8
YY-28	2.861	2.711	3.742	2	1 7/8
YY-30	3 1/16	2 11/16	3 5/8	2 7/8	1 15/16
YY-31	3.245	2.979	3.867	2 3/8	2 1/8
YY-32	3.245	2.979	4.242	2 3/8	2 1/8
YY-33	3.667	3.292	4.305	2 5/8	2 3/8
YY-35	3 17/32	2 27/32	4	2 1/2	2 1/16
YY-36	3 9/16	2 13/16	3 1/2	2 1/2	2 1/16
YY-37	2 23/32	3 15/32	4 15/32	2 3/4	2 1/2
YY-42	4.573	4.120	5.318	3 3/8	3
YY-51	7	5 3/16	7 5/8	5	3 7/8



ZZ

	27C60
WIDTH	2 1/2
LENGTH	2 7/8
HEIGHT	2 17/32
MTG.CENTERS	2 3/16 x 2 1/16

Chokes

Part No.	MIL-T-27A Classification	Inductance In Henrys	MADC	Resistance In Ohms	Test Volts RMS	Case Size	Wt. Lbs.
27C124	TF4RX04YY	3.8	100	105	1,750	YY-25	2
27C125	TF4RX04YY	10	100	200	2,500	YY-36	2.5
27C126	TF4RX04LB	25	100	380	7,500	LB	11
27C103	TF4SX04EB	2*	105	110	2,500	EB	.5
27C18	TF4RX04HB	8	105	100	2,500	HB	3.75
27C92	TF4RX04YY	8	105	100	2,500	YY-28	3.75
27C19	TF4RX04HB	12	105	170	2,500	HB	4
27C93	TF4RX04YY	12	105	170	2,500	YY-28	4
27C28	TF4SX04EB	2*	120	100	2,500	EB	1
27C127	TF4SY04FB	2*	120	75	1,500	FB	1.2
27C107	TF4SX04YY	2*	120	100	2,500	YY-16	1
27C73	TF4RX04EB	3*	120	150	1,500	EB	1.12
27C74	TF4RX04JB	15	120	185	2,500	JB	5.25
27C128	TF2SY04ZZ	7	125	300	1,000	ZZ	.7
27C129	TF1RX04YY	8	125	135	2,700	YY-35	4
27C130	TF4RX04GA	10	125	200	2,000	GA	3
27C131	TF4RX04YY	10	136	100	2,500	YY-38	4
27C104	TF4SX04EB	2*	150	95	2,500	EB	1
27C20	TF4RX04JB	8	150	100	2,500	JB	5.25
27C94	TF4RX04YY	8	150	100	2,500	YY-31	5.25
27C21	TF4RX04JB	12	150	150	2,500	JB	5.5
27C95	TF4RX04YY	12	150	150	2,500	YY-32	5.5
27C29	TF4SX04EB	2*	165	90	2,500	EB	1.5
27C108	TF4SX04YY	2*	165	90	2,500	YY-16	1.5
27C133	TF4RX04GA	7.5	165	200	1,500	GA	2.25
27C30	TF4SX04FB	2*	200	73	2,500	FB	1.75
27C109	TF4SX04YY	2*	200	73	2,500	YY-18	1.75
27C75	TF4RX04FB	3*	200	105	2,000	FB	1.75
27C22	TF4RX04JB	8	200	85	2,500	JB	7
27C96	TF4RX04YY	8	200	85	2,500	YY-33	7
27C76	TF4RX04JA	10	200	100	2,500	JA	6.6
27C49	TF4RX04KB	11 or 10 or 8.5 or 6.5■	200 230 250 300	90	2,500	KB	7
27C50	TF4RX04LB	11 or 10 or 8.5 or 6.5■	200 230 250 300	85	4,500	LB	8.5
27C23	TF4RX04JB	12	200	140	2,500	JB	7
27C97	TF4RX04YY	12	200	140	2,500	YY-33	7
27C60	TF5SX04ZZ	2 or 1.5 or 1	220 270 325	35	2,500	ZZ	1.7
27C24	TF4RX04MB	8	250	90	2,500	MB	10.5
27C98	TF4RX04YY	8	250	90	2,500	YY-42	10.5
27C134	TF4RX04JA	10	250	110	1,500	JA	4.5
27C135	TF4RX04YY	10	275	120	2,500	YY-37	7
27C31	TF4SX04HB	2*	300	47	2,500	HB	3.25
27C34	TF4RX04GB	2*	300	48	2,500	GB	2.5
27C110	TF4SX04YY	2*	300	47	2,500	YY-27	3.25
27C136	TF4RX04JA	6	300	68	1,500	JA	4.5
27C25	TF4RX04MB	8	300	60	3,500	MB	12.5
27C99	TF4RX04YY	8	300	60	3,500	YY-42	12.5
27C36	TF1RX04LA	10	300	85	2,500	LA	10.5
27C51	TF4RX04MB	10 or 9 or 8 or■ 6.5■	300 350 390 435	60	5,500	MB	12.5
27C137	TF4RX04KB	3	400	50	1,500	KB	7
27C52	TF4RX04OA	7 or 6.5 or■ 6 or ■ 5.5 ■	400 430 465 500	48	7,000	OA	21
27C138	TF4RX04YY	1	420	16	2,000	YY-30	3
27C139	TF4SY04JB	2*	500	40	1,500	JB	4
27C140	TF1RX04YY	11	500	60	10,000	YY-48	25
27C141	TF4RX04JA	.5	800	3	1,500	JA	6
27C142	TF4RX04AJ	.01	900	1.7	1,000	AJ	.5
27C143	TF4RX04YY	.04	1 Amp.	1.7	1,500	YY-20	1.2
27C144	TF4RX04GB	.2	1 Amp.	5	1,680	GB	2.5
27C145	TF4RX04JA	.5	1 Amp.	5	2,000	JA	4.5
27C146	TF4RX04KB	.025	4 Amp.	.25	500	KB	5.5
27C147	TF4RX04KB	.85	12 Amp.	.015	900	KB	6
27C148	TF1RX04YY	.005	30 Amp.	.05	900	YY-51	25

* Designed for 400 Cycle Operation

■ Industrial Rating

Mil-T-27A

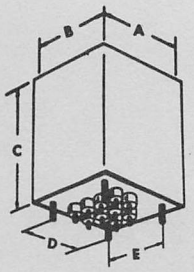
Dual Winding - Chokes and Inductors

Designed and built to meet MIL-T-27A specifications. These units provide the maximum inductance at the given current ratings in a minimum size. All AJ, FA, GA, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all YY cases are listed at the side of this page.

Part No.	MIL-T-27A Classification	Series Connected			Parallel Connected			Case Size	Wt. Lbs.
		Inductance In Henrys	MADC	Resistance In Ohms	Inductance In Henrys	MADC	Resistance In Ohms		
27C44	TF4RX20YY	450 or 250	0 5	6,000	65	10	1,500	RC-50	.5
MI-T249	TF4RX20YY	20 or 8	1 3	5,100	5 or 2	2 6	1,275	Note 1	.1 oz.
27C41	TF4RX04YY	2.4	2	160	.6	4	40	TFH	.8 oz.
27C62	TF5SX04ZZ	1 or .2 or .16	5 50 100	40	1.25 or .05 or .04	10 100 200	10	ZZ	.05
27C40	TF4RX04YY	1	8	100	.25	10	25	TFH	.8 oz.
MI-T250	TF4RX20YY	75 MH or 60 MH	10 30	10.5	18 MH or 15 MH	20 60	2.6	Note 1	.1 oz.
27C46	TF4RX04YY	40	15	1,000	10	30	250	RC-50	.5
27C43	TF4RX04YY	1	20	60	.25	40	15	RC-25	.1
27C39	TF4RX04YY	60 MH	32	6	15 MH	64	1.5	TFH	.8 oz.
27C53	TF4RX04AG	52 MH or 40 MH or 18 MH or 9 MH	35 75 350 750	1	13 MH or 10 MH or 4.5 MH or 2.25 MH	70 150 70 1.5 Amp.	.25	AG	.1
27C54‡	TF4RX04AH	125 MH or 80 MH or 20 MH or 12 MH	50 100 500 1 Amp.	1.2	31 MH or 20 MH or 5 MH or 3 MH	100 200 1 Amp. 2 Amp.	.3	AH	.4
27C45	TF4RX04YY	4	50	100	1	100	25	RC-50	.5
27C149§	TF4RX04FA	10	60	300	2.5	120	75	FA	1
27C57■	TF4RX04JA	9 MH or 5 MH or 2.2 MH or 1.6 MH	75 1.5 Amp. 7.5 Amp. 15 Amp.	.03	2.25 MH or 1.5 MH or .55 MH or .4 MH	1.5 Amp. 3 Amp. 15 Amp. 30 Amp.	.0075	JA	4.5
27C42	TF4RX04YY	60 MH	80	4	15 MH	160	1	RC-25	.1
27C151●	TF4RX04HA	4	90	50	1	180	12.5	HA	4
27C55★	TF4RX04AJ	68 MH or 52 MH or 20 MH or 14 MH	100 200 1 Amp. 2 Amp.	.8	17 MH 13 MH 5 MH 3.5 MH	200 400 2 Amp. 4 Amp.	.2	AJ	.6
27C56	TF4RX04GB	180 MH or 140 MH or 25 MH or 11 MH	125 250 1.25 Amp. 2.5 Amp.	.6	45 MH or 35 MH or 6.5 MH or 3 MH	250 500 2.5 Amp. 5 Amp.	.15	GB	1.75
27C150●	TF4RX05JA	10	140	100	2.5	280	25	JA	5
27C61	TF5SX04ZZ	200 MH or 25 MH or 11 MH	150 1.25 Amp. 2.5 Amp.	.6	55 MH or 6.2 MH or 2.7 MH	250 2.5 Amp. 5 Amp.	.15	ZZ	1.7
27C152▲	TF4RX04KA	10	210	140	2.5	420	35	KA	5.2
27C58■	TF4RX04HA	70 MH or 65 MH or 20 MH or 9 MH	250 400 2 Amp. 4 Amp.	.22	12.5 MH 16 MH 5 MH 2.25 MH	500 800 4 Amp. 8 Amp.	.055	HA	2.5
27C59	TF4RX04KA	90 MH or 80 MH or 18 MH or 9 MH	500 800 4 Amp. 8 Amp.	.15	22.5 MH or 20 MH or 4.5 MH or 2.25 MH	1 Amp. 1.6 Amp. 8 Amp. 16 Amp.	.035	KA	5.2

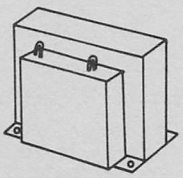
‡ 500 Volts RMS Test
§ 1,700 Volts RMS Test
■ 1,000 Volts RMS Test
✪ 750 Volts RMS Test
● 1,500 Volts RMS Test
▲ 1,875 Volts RMS Test

Note 1 — Refer to Page 15 for case size and mounting type



MIL-T-27A

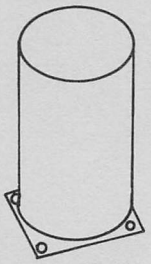
FOR AG, AH, FA, GB, HA, JA, KA
SEE PAGE 27



ZZ

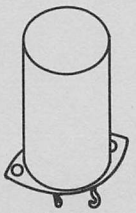
	27C61	27C62
WIDTH	2 1/2	3/4
LENGTH	2 7/8	1
HEIGHT	2 17/32	23/32
MTG. CENTERS	2 3/16 X 2 1/16	PRINTED CIRCUIT*
WEIGHT	1.7 Lbs.	.05 Lbs.

*SEE PAGE 18 FOR COMPLETE TERMINAL LAYOUT.



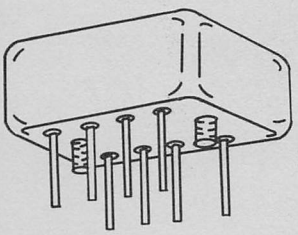
RC-50

1 5/8 x 1 5/8 HIGH
2 1/4 CASE
1 5/16 x 1 5/16 MTG. CENTERS



RC-25

15/16 HIGH
1 7/16 CASE
1 1/8 MTG. CENTERS



TFH

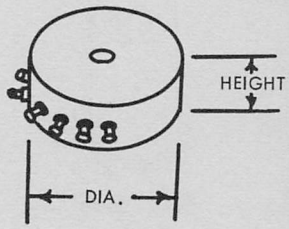
27/32 x 23/32 CASE
9/16 HIGH
1/2 MTG. CENTERS

INVERTERS AND CONVERTERS
TRANSISTOR POWER SUPPLY TRANSFORMER

Recent developments in the power transistor field have made possible the design of circuits which are efficient and rugged converters of low voltage DC to high voltage AC or DC power. These transistorized power supplies are ideally suited for powering all kinds of battery operated equipment such as mobile communication systems, aircraft and marine navigational systems, photoflash, ultrasonic applications and even 117 Volts 60 CPS from an automobile battery so as to operate 117 V radio, television, electric shavers, etc. These transistor power supply transformers give a wide range of voltage and power to choose from. Complete instructions supplied with each transformer.

Converter-Epoxy Molded Toroid-DC to DC

Part No.	DC Supply Voltage	DC Output Voltage	Output Current In MADC	Power Output In Watts	Mtg. Type	Mtg. Hole Diameter	Dimensions H	Dimensions Dia.
TR-269	12.6	250/125	100/200	25	T	11/64	11/16	1 3/4
TR-270	12.6	300/150	200/400	60	T	11/64	1	1 3/4
TR-271	12.6	325/162.5	150/300	49	T	11/64	1	1 3/4
TR-272	12.6	375/187.5	200/400	75	T	11/64	1	2
TR-273	12.6	450/225	150/300	68	T	11/64	1	2
TR-274	12.6	500/250	250/500	125	T	3/16	1 3/8	2 3/4
TR-275	12.6	600/300	200/400	120	T	3/16	1 3/8	2 3/4
TR-276	28	250/125	80/160	20	T	7/64	9/16	1 5/16
TR-277	28	300/150	100/200	30	T	11/64	11/16	1 3/4
TR-278	28	325/162.5	200/400	65	T	11/64	1	1 3/4
TR-279	28	375/187.5	200/400	75	T	11/64	1	2
TR-280	28	450/225	200/400	90	T	11/64	1	2
TR-281	28	500/250	250/500	125	T	3/16	1 3/8	2 3/4
TR-282	28	600/300	200/400	120	T	3/16	1 3/8	2 3/4
TR-283	6	300/150	100/200	30	T	11/64	1	1 3/4
TR-284	6	325/162.5	150/300	49	T	11/64	1	2
TR-285	6	375/187.5	200/400	75	T	3/16	1 3/8	2 3/4
TR-286	6	450/225	150/300	68	T	3/16	1 3/8	2 3/4

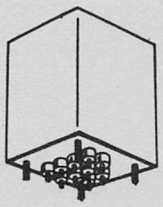


T

Converter-Encased-DC To DC-Mil-T-27A

Part No.	DC Supply Voltage	DC Output Voltage	Output Current In MADC	Power Output In Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D
27R20	12/14 or 24/28	250	60	15	AH	1 1/4	1 3/4	1 5/16	1 5/16
27R21	12/14 or 24/28	375	100	37.5	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
27R22	12/14 or 24/28	425	175	53	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
27R23	12/14 or 24/28	550	200	110	GB	2 1/8 x 1 3/4	2 13/16	2 3/4	2 3/8

† Power Rating for Resistive Loads.



AH-AJ-FA

SEE PAGE 27
FOR CASE SIZES

Mil-T-27A

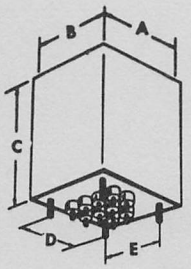
400 Cycle Operation

Chokes

Designed and built to meet MIL-T-27A specifications. All AJ, FA, GA, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all the YY cases are listed at the side of this page.

Also see Pages 40, 41 and 42 for the complete line of MIL-T-27A Chokes.

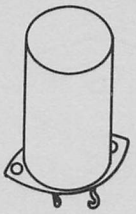
Part No.	MIL-T-27A Classification	Inductance In Henrys	MADC	Resistance In Ohms	Test Volts RMS	Case Size	Wt. Lbs.
27C100	TF4SX04AH	2	40	190	2,500	AH	.25
27C26	TF4SX04AH	2	55	160	2,500	AH	.25
27C105	TF4SX04YY	2	55	160	2,500	YY-1	.25
27C27	TF4SX04AH	2	70	165	2,500	AH	.5
27C101	TF4SX04AJ	2	70	165	2,500	AJ	.75
27C117	TF4SY04EB	2	70	100	1,500	EB	1.12
27C106	TF4SX04YY	2	70	165	2,500	YY-6	.5
27C71	TF4RX04YY	3	70	225	1,500	YY-14	.75
27C102	TF4SX04AH	2	85	135	2,500	AH	.375
27C103	TF4SX04EB	2	105	110	2,500	EB	.5
27C28	TF4SX04EB	2	120	100	2,500	EB	.5
27C127	TF4SY04FB	2	120	75	1,500	FB	1.2
27C107	TF4SY04YY	2	120	100	2,500	YY-16	1
27C73	TF4RX04EB	3	120	150	1,500	EB	1.12
27C104	TF4SX04EB	2	150	95	2,500	EB	1
27C29	TF4SX04EB	2	165	90	2,500	EB	1.5
27C108	TF4SX04YY	2	165	90	2,500	YY-16	1.5
27C30	TF4SX04FB	2	200	73	2,500	FB	1.75
27C109	TF4SX04YY	2	200	73	2,500	YY-18	1.75
27C75	TF4RX04FB	3	200	105	2,000	FB	1.75
27C31	TF4SX04HB	2	300	47	2,500	HB	3.25
27C34	TF4RX04GB	2	300	48	2,500	GB	2.5
27C10	TF4SX04YY	2	300	47	2,500	YY-27	3.25
27C139	TF4SY04JB	2	500	40	1,500	JB	4



MIL-T-27A

FOR AH, AJ, EA, EB, FA, FB
GB, HB, JB
SEE PAGE 27

	A	B	C	D	E
YY-1	1.198	1.198	2	1 5/32	-
YY-6	1.361	1.361	2.037	1 5/16	-
YY-14	1 5/8	1 5/8	2 3/8	1 5/8	-
YY-15	1.901	1.791	2.205	1 5/16	1 1/16
YY-16	1.901	1.791	2.424	1 5/16	1 1/16
YY-18	2.241	2.101	2.930	1 9/16	1 3/8
YY-22	2.521	2.381	3.299	1 13/16	1 11/16
YY-27	2.861	2.711	3.492	2	1 7/8



RC-25

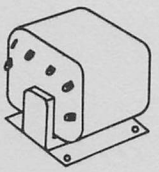
15/16 DIAMETER
1 7/16 HIGH
1 1/8 MTG. CENTERS

Filament

PRIMARY 380-1000 CYCLES

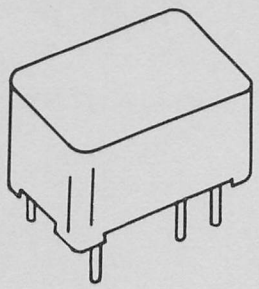
These transformers have been designed and built to meet all requirements of MIL-T-27A for their specific class of operation. All EB, GA, GB, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all YY and ZZ case sizes are listed at the side of this page.

Part No.	MIL-T-27A Classification	Primary Voltage	Secondary Voltage	Secondary Amps.	Test Volts RMS	Case Size	Wt. Lbs.
27F87	TF5RX01ZZ	105/115	6.3CT	.3	500	Molded ‡	.05
27F82	TF4RX01YY	115	6.3	.6	500	RC-25	.1
27F14	TF4RX01AH	115	6.3CT	1	1,500	AH	.3
27F121	TF2SX01ZZ	115	6.3CT	2	1,500	ZZ	.33
27F35	TF4SX01YY	105/115/125	6.3CT	2	2,000	YY-14	.75
27F59	TF4SX01AJ	105/115/125	6.3CT	3	2,500	AJ	.75
27F102	TF4SX01EB	105/115/125	6.3CT	3	2,500	EB	1
27F105	TF4SX01YY	105/115/125	6.3CT	3	2,500	YY-15	.75
27F83	TF5SX01ZZ	105/115	6.3CT	3.5	2,500	Molded	.3
27F122	TF2SX01ZZ	115†	6.3CT	4	1,500	Molded	.45
27F120	TF4RX01FB	105/115/125	6.3	5	2,500	FB	.75
27F60	TF4SX01EA	105/115/125	6.3CT	5.5	2,500	EA	1
27F84	TF5SX01ZZ	105/115	6.3CT	5.5	2,500	Molded	.44
27F106	TF4SX01YY	105/115/125	6.3CT	5.5	2,500	YY-16	1
27F61	TF4SX01FA	105/115/125	6.3CT	10	2,500	FA	1.75
27F85	TF5SX01ZZ	105/115	6.3CT	10	2,500	Molded	.8
27F108	TF4SY01YY	105/115/125	6.3CT	20	2,500	YY-22	2.5
27F62	TF4SX01GA	105/115/125	6.3CT	20	2,500	GA	2.5
27F86	TF5SX01ZZ	105/115	6.3CT	25	2,500	Molded	1.5
27F15	TF4RX01EA	105/115/125	12.6CT	2.5	2,000	EA	1.2
27F16	TF4RX01EA	105/115/125	24CT	1.5	1,500	EA	1.2
27F19	TF4RX01HA	105/115/125	2.5CT 5.0CT 5.0	10 10 10	7,500 Pri. 2,000	HA	4
27F103	TF4RX01AJ	105/115/125	12.6CT 12.6	.8 .8	1,500	AJ	.8
27F20	TF4RX01YY	105/115/125	12.6CT 12.6	.8 .8	1,500	YY-14	.75
27F104	TF4RX01EA	105/115/125	12.6CT 12.6	2 2	1,500	EA	1.3
27F21	TF4RX01EA	57.5/99.7/115/120*	12.6CT 12.6	2 2	1,500	EA	1.25
27F81	TF4RX01FA	57.5/99.7/115*	12.6CT 12.6	2 2	1,500	FA	1.75
27F22	TF4RX01FA	57.5/99.7/115/120*	26CT 26CT	2 2	2,000	FA	1.9



MOLDED

	L	W	H	MOUNTING
27F83	1 25/32	1 21/32	2	1 1/8 x 1 5/32
27F84	1 3/4	2	2 1/4	1 1/8 x 1 9/32
27F85	2 5/16	2 1/8	2 1/2	1 11/16 x 1 13/16
27F86	2 7/8	2 1/2	3 1/32	2 3/16 x 1 17/32
27F121	2 1/8	1 5/8	2 1/16	1 1/8 x 7/8
27F122	2 1/8	1 3/4	2 1/16	1 1/4 x 7/8



MOLDED ‡
1 x 3/4 CASE SIZE
23/32 HIGH
PRINTED CIRCUIT MOUNTING

† Static Shielded

* Two units Scott connected provide 26 Volts two phase from 115 Volts 3—phase, 400 cycle input.

SEE PAGE 50 FOR 400 CYCLE POWER TRANSFORMERS.

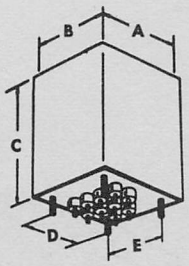
Mil-T-27A Steel Jacket Line

Filament Single Secondary

50/60 CYCLES

These transformers have been designed and built to meet MIL-T-27A specifications. All EB, GA, GB, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all the YY and ZZ cases are listed at the side of this page.

See next page for multiple secondary filament transformers.



MIL-T-27A

FOR AH, AJ, EA, EB, FA, FB, GA, GB, HA, HB, JA, JB, KA, LA, MA
SEE PAGE 27

	A	B	C	D	E
YY-14	1 5/8	1 5/8	2 3/8	1 5/8	–
YY-17	2.241	2.101	2.680	1 9/16	1 3/8
YY-18	2.241	2.101	2.930	1 9/16	1 3/8
YY-21	2.521	2.381	3.049	1 13/16	1 11/16
YY-22	2.521	2.381	3.299	1 13/16	1 11/16
YY-27	2.861	2.711	3.492	2	1 7/8
YY-28	2.861	2.711	3.742	2	1 7/8
YY-32	3.245	2.979	4.242	2 3/8	2 1/8
YY-34	3.667	3.292	4.680	2 5/8	2 3/8
YY-39	3 15/16	3 3/8	5	2 3/4	2 1/2
YY-43	5.323	4.792	6.068	3 3/8	3
YY-52	6 1/2	5 1/2	7 3/4	5 3/8	4 1/8

Part No.	MIL-T-27A Classification	Primary Voltage	Secondary Volts	Secondary Amps.	Test Volts RMS	Case Size	Wt. Lbs.
27F36	TF4RX01EB002	105/115/125	2.5	3	2,500	EB	1.5
27F46	TF4RX01GA	115/230	2.5CT	5.25	3,500	GA	2
27F24	TF4RX01YY	115/230	2.5CT	5.25	3,500	YY-22	2
27F37	TF4RX01GB003	105/115/125	2.5	10	2,500	GB	2.5
27F88	TF4RX01GB	105/115/210/230	2.5	10	4,000	GB	2.5
27F47	TF4RX01GA	115/230	2.5CT	10	5,000	GA	3
27F25	TF4RX01YY	115/230	2.5CT	10	5,000	YY-22	3
27F48	TF4RX01JA	115/230	2.5CT	10	9,000	JA	4
27F26	TF4RX01YY	115/230	2.5CT	10	9,000	YY-32	4
27F89	TF4RX01JB	105/115/210/230	2.5	10	10,000	JB	5
27F44	TF4RX01JB012	105/115/125	2.5	10	10,000	JB	4.75
27F49	TF4RX01KA	115/230	2.5CT	15	9,000	KA	5.25
27F27	TF4RX01YY	115/230	2.5CT	15	9,000	YY-34	5.25
27F63	TF4RX01KB	105/115/210/230	2.5	20	10,000	KB	7.25
27F38	TF4RX01FB004	105/115/125	5.0	3	2,500	FB	1.75
27F65	TF4RX01FB	105/115/210/230	5.0	3	2,000	FB	1.75
27F50	TF4RX01GA	115/230	5.0CT	4	2,500	GA	2.25
27F28	TF4RX01YY	115/230	5.0CT	4	2,500	YY-22	2.25
27F39	TF4RX01HB005	105/115/125	5.0	10	2,500	HB	4
27F51	TF4RX01HA	115/230	5.0CT	10	2,500	HA	3.5
27F29	TF4RX01YY	115/230	5.0CT	10	2,500	YY-28	3.5
27F52	TF4RX01KA	115/230	5.0CT	10	8,000	KA	6
27F30	TF4RX01YY	115/230	5.0CT	10	8,000	YY-34	6
27F66	TF4RX01KB	105/115/210/230	5.0	10	10,000	KB	7.5
27F45	TF4RX01KB013	105/115/125	5.0	10	10,000	KB	7.5
27F53	TF4RX01MA	115/230	5.0CT	20	10,000	MA	13
27F31	TF4RX01YY	115/230	5.0CT	20	10,000	YY-43	13
27F67	TF4RX01LA	105/115/210/230	5.0	20	10,000	LA	10.5
27F68	TF4RX01NA	105/115/210/230	5.0	20	21,000	NA‡	18
27F69	TF4RX01YY	105/115/210/230	5.0	60	21,000	YY-52	34
27F110	TF4RX01YY	105/115/125†	5.25CT	14	2,500	YY-39	4
27F71	TF4RX01AH	115	6.3CT	.3	1,500	AH	.5
27F72	TF4RX01AJ	115	6.3CT	.6	1,500	AJ	1
27F01	TF4RX01YY	115	6.3	.6	1,500	YY-14	.75
27F54	TF4RX01FA	115/230	6.3CT	1.5	2,500	FA	1
27F32	TF4RX01YY	115/230	6.3CT	1.5	2,500	YY-17	1
27F33	TF4RX01EA	105/115/125	6.3CT	2	2,000	EA	1
27F40	TF4RX01FB006	105/115/125	6.3	2	2,500	FB	1.75
27F73	TF4RX01FB	115/230	6.3CT	2	2,500	FB	1.75
27F55	TF4RX01GA	115/230	6.3CT	3	2,500	GA	2
27F90	TF4RX01YY	115/230	6.3CT	3	2,500	YY-21	2
27F34	TF4RX01FA	105/115/125	6.3CT	3.6	2,000	FA	1.75
27F41	TF4RX01GB007	105/115/125	6.3	5	2,500	GB	2.75
27F56	TF4RX01HA	115/230	6.3CT	5.5	2,500	HA	3
27F02	TF4RX01HB	105/115/125	6.3CT	5.5	2,000	HB	4
27F91	TF4RX01YY	115/230	6.3CT	5.5	2,500	YY-27	3
27F75	TF4RX01HB	105/115/210/230	6.3CT	7	2,500	HB	4
27F05	TF4RX01JB	105/115/125	6.3CT	8	2,500	JB	5
27F57	TF4RX01JA	115/230	6.3CT	10	2,500	JA	5
27F42	TF4RX01JB008	105/115/125	6.3	10	2,500	JB	5
27F76	TF4RX01HA	105/115/210/230	6.3CT	10	2,500	HA	3.5
27F92	TF4RX01YY	115/230	6.3CT	10	2,500	YY-32	5
27F107	TF4SX01YY	105/115/125	6.3CT	10	2,500	YY-18	1.75
27F43	TF4RX01KB009	105/115/125	6.3	20	2,500	KB	8
27F58	TF4RX01HA	115/230	10.0CT	4	2,500	HA	3.25
27F93	TF4RX01YY	115/230	10.0CT	4	2,500	YY-28	3.25
27F77	TF4RX01JB	105/115/210/230	10.0CT	10	2,500	JB	5
27F78	TF4RX01LA	105/115/210/230	11CT or 12CT or 14CT	10	2,500	LA	10.5
27F06	TF4RX01EA	105/115/125	12.6CT	.8	1,500	EA	1.25
27F07	TF4RX01FA	105/115/125	12.6CT	2	2,000	FA	2
27F08	TF4RX01FA	105/115/125	24CT	.8	1,500	FA	2
27F09	TF4RX01GA	105/115/125	24CT	1.5	1,500	GA	3.25

† Static Shielded

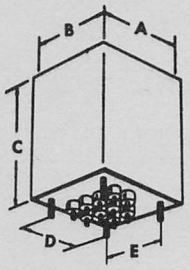
‡ Terminals located opposite mounting studs.

Filament - Multiple Secondary

These transformers have been designed and built to meet all requirements of MIL-T-27A for their specific class of operation. All EB, GA, GB, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all the YY and ZZ case sizes are listed at the side of this page.

Part No.	MIL-T-27A Classification	Primary Voltage	Secondary Volts	Secondary Amps.	Test Volts RMS	Case Size	Wt. Lbs.
27F64	TF4RX01NB	105/115/210/230	2.5 2.5 2.5	5 5 10	10,000	NB	15
27F101	TF4RX01KA	105/115/125	5.0CT 5.0CT 5.0CT	3 3 6	5,000	KA	7
27F70	TF4RX01YY	105/115/210/230	5.0 5.0 5.0	10 10 20	21,000	YY-49	28
27F94	TF4RX01GA	105/115/125	5.0 6.3CT	2 2.5	2,500	GA	3.5
27F96	TF4RX01HA	105/115/125	5.0 6.3CT	3 5	2,500	HA	4
27F13	TF4RX01JB	105/115/125	5.0CT 6.3CT	3 5	2,500	JB	4.75
27F97	TF4RX01JB	105/115/125	5.0 6.3CT 6.3CT	3 3 3	2,500	JB	4.75
27F98	TF4RX01JB	105/115/125	5.0 6.3CT 6.3CT	3 1 5	2,500	JB	4.75
27F95	TF4RX01GA	105/115/125	5.0 12.6CT	2 1.25	2,500	GA	3.5
27F132	TF4RX01YY	105/115/125	5.25CT 5.25CT	14.5 14.5	2,500	YY-44	5
27F79	TF4RX01EB	115	6.3CT 6.3CT	.6 .6	1,500	EB	.8
27F127	TF4RX01YY	115	6.3 6.3	.75 .75	2,000	YY-23	1.2
27F126	TF4RX01JA	115	6.3 6.3 6.3	1.2 3 10	2,700	JA	5.5
27F128	TF4RX01GA	115†	6.3 6.3	3 .6	1,000 3,500	GA	2
27F04	TF4RX01GA	105/115/125	6.3 6.3CT	3 3	2,500 Pri. 1,500	GA	2.25
27F99	TF4RX01HA	105/115/125	6.3CT 6.3CT	3 3	2,500	HA	4
27F131	TF4RX01JA	115	6.3 6.3 6.3 6.3	3 3 3 3	2,500	JA	4
27F18	TF4RX01FA	105/115/125	6.3 6.3CT 6.3/5.0	3.5 3.5 3	2,000	FA	1.85
27F17	TF4RX01FA	105/115/125	6.3 6.3CT	5 5	2,500 Pri. 1,500	FA	2
27F12	TF4RX01JA	105/115/125	6.3CT 6.3	6 6	2,500 Pri. 1,500	JA	6.3
27F100	TF4RX01KA	105/115/125	6.3CT 6.3CT	6 6	2,500	KA	8
27F74	TF4RX01JA	105/115/210/230	6.3CT 6.3CT	6 6	2,500	JA	6.3
27F03	TF4RX01KA	105/115/125	6.3CT 6.3	10 10	2,500 Pri. 1,500	KA	8
27F130	TF4RX01GA	115 60 CPS	6.3 12.6	2.5 2.5	1,500	GA	2.75
27F129	TF4RX01EA	115 60 CPS	12.6 12.6	.25 .25	500	EA	1
27F10	TF4RX01GA	105/115/125	12.6CT 12.6CT	1.5 1.5	1,500	GA	3.25
27F11	TF4RX01JB	105/115/125	12.6CT 12.6	2 2	2,500	JB	6.5
27F80	TF4RX01GA	115	12.6CT 12.6CT	2 2	1,500	GA	3.5
27F23	TF4RX01JA	105/115/125	26CT 26	2 2	2,000	JA	6.3

† Static Shielded



MIL-T-27A

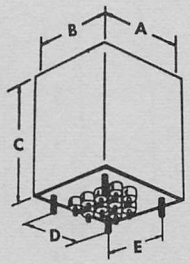
FOR EB, FA, GA, HA, JA
JB, KA, NB
SEE PAGE 27

	A	B	C	D	E
YY-23	2 13/32	2 17/32	3 1/16	1 3/4	1 5/8
YY-44	5	4	5	3 3/4	2 3/4
YY-49	6 1/2	5 1/2	7 3/4	5 3/8	4 3/8

Power

PRIMARY 117 VOLT 50/60 CYCLES

These units have been designed and built to all requirements of MIL-T-27A for their specific class of operation. All EB, GA, GB, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all YY case sizes are listed at the side of this page. These units meet the requirements for circuit and mobile communications, control equipment, guided missile controls as well as marine equipment and any field where maximum sealing quality is a prime requisite.



MIL-T-27A

FOR FA, GA, HA, JA, JB, KA, LA, MB
SEE PAGE 27

	A	B	C	D	E
YY-21	2.521	2.381	3.049	1 13/16	1 11/16
YY-22	2.521	2.381	3.299	1 13/16	1 11/16
YY-28	2.861	2.711	3.742	2	1 7/8
YY-32	3.245	2.979	4.242	2 3/8	2 1/8
YY-40	3 17/32	3 1/32	4 1/2	2 5/8	2 1/8

Part No.	MIL-T-27A Classification	PLATE SUPPLY MADC† Volts	C	L	RECTIFIER Volts	Amps.	FILAMENT Volts	Amps.	Case Size	Wt. Lbs.
27R18	TF4RX03FA	120	100	127			6.3CT	1.6	FA	2
27R17	TF4RX03HA	*800/1,600/2,400	5‡	-	1.25 (Autoformer on H.V. Sec.)	.2	6.3 (5.2KV Test)	.6	HA	4
27R127	TF4RX03KA	3,200	3	-	1.25 (Autoformer on H.V. Sec.)	.2	1.25 (13KV Test)	.2	KA	8
★ 27R105	TF4RX03LA	30-0-30	2.5A	3.9A			6.3 6.3	1.5 1.5	LA	9
★ 27R104	TF4RX03LA	40-0-40	2A	2.9A			6.3 6.3	1.5 1.5	LA	9.6
★ 27R103	TF4RX03LA	50-0-50	1.6A	2.6A			6.3 6.3	1.5 1.5	LA	10.5
27R13	TF4RX03HA	100-0-100 or 117-0-117	85‡ 75	140 125			6.3	3.5	HA	4
★ 27R102	TF4RX03LA	100-0-100	800	1.34A			6.3 6.3	2 2	LA	10
27R14	TF4RX03JA	108-0-108 or 232-0-232	180‡ 150	285 240			6.3	5	JA	5
27R15	TF4RX03KA	115-0-115 or 142-0-142	280‡ 235	445 380			6.3 6.3	5 1.5	KA	8
27R16	TF4RX03MB	130-0-130 or 160-0-160	320‡ 260	500 420			6.3 6.3	6 2	MB	14
★ 27R101	TF4RX03LA	150-0-150	600	1A			6.3 6.3	2.5 2.5	LA	10.5
27R85	TF4RX03JA	180-0-180 160-0-160 140-0-140 120-0-120	150	-	5.0	3			JA	5
27R60	TF4RX03YY	180-0-180 160-0-160 140-0-140 120-0-120	150	-	5.0	3			YY-32	5
★ 27R100	TF4RX03LA	200-0-200	400	540			6.3 6.3	3 3	LA	10.5
27R86	TF4RX03HA001	200-100-0 100-200	-	70	6.3/5	2	6.3	3	HA	4
27R01	TF4RX03FA	225-0-225	30‡	-			6.3CT	2	FA	2
27R65	TF4RX03HA	225-0-225	40	-	5.0	2	6.3CT	2	HA	3.25
27R40	TF4RX03YY	225-0-225	40	-	5.0	2	6.3CT	2	YY-28	3.25
27R63	TF4RX03GA	250-0-250	10	-	6.3	.6	6.3	1.2	GA	2
27R38	TF4RX03YY	250-0-250	10	-	6.3	.6	6.3	1.2	YY-21	2
27R64	TF4RX03GA	250-0-250	20	-	6.3	.6	6.3	1.2	GA	2
27R39	TF4RX03YY	250-0-250	20	-	6.3	.6	6.3	1.2	YY-22	2
27R19	TF4RX03GA	250-0-250	20	25.4			6.3CT	2	GA	2
27R128	TF4RX03GA	250-0-250	45		6.3	.6	6.3	.8	GA	2
27R02	TF4RX03HA	250-0-250 or 275-0-275	55‡ 50	95 85	5.0	2	6.3CT	3	HA	4
27R66	TF4RX03HA	270-0-270	55	-	5.0	2	6.3CT	2	HA	3.5
27R41	TF4RX03YY	270-0-270	55	-	5.0	2	6.3CT	2	YY-28	3.5
27R129	TF4RX03YY	275-0-275	90	-	5.0	2	6.3	3.5	YY-40	6
27R03	TF4RX03JB	275-0-275 or 300-0-300	90 85	145 135	5.0	2	6.3CT	4	JB	5
27R24	TF4RX03JB	300-0-300	50	63.5	5.0	2	6.3CT	2.5	JB	5
27R67	TF4RX03JA	300-0-300	60	-	5.0	2	6.3CT	3	JA	5.5
27R42	TF4RX03YY	300-0-300	60	-	5.0	2	6.3CT	3	YY-32	5.5

★ Silicon Rectifier Power Transformer — See Yellow Pages for Voltage and Circuit Chart
* Highly shielded scope transformers ‡ Reduce secondary current by 10% for 50 Cycle operation
† C = Capacitor Input Filter
L = Choke Input Filter

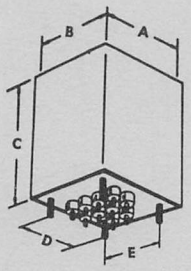
Power

continued PRIMARY 117 VOLT 50/60 CYCLES

Part No.	MIL-T-27A Classification	PLATE SUPPLY MADC† Volts	C	L	RECTIFIER Volts	Amps.	FILAMENT Volts	Amps.	Case Size	Wt. Lbs.
27R04	TF4RX03JA	300-0-300	100‡	165	5.0	2	6.3CT	5	JA	5.5
		or								
		335-0-335	90	150						
27R87	TF4RX03JB002	325-0-325	-	70	6.3/5	2	6.3	4	JB	5
27R88	TF4RX03KB006	325-0-325	-	150	5.0	3	6.3	5	KB	7.25
27R69	TF4RX03JA	330-0-330	85	-	5.0	2	6.3CT	3	JA	6
27R44	TF4RX03YY	330-0-330	85	-	5.0	2	6.3CT	3	YY-33	6
27R68	TF4RX03JA	335-0-335	70	-	5.0	2	6.3CT	3	JA	4.5
27R43	TF4RX03YY	335-0-335	70	-	5.0	2	6.3CT	3	YY-32	4.5
27R134	TF4RX03KB	340-0-340	75	-	5.0	3			KB	2.6
27R70	TF4RX03KA	345-0-345	105	-	5.0	2	6.3CT	3.5	KA	6.5
27R45	TF4RX03YY	345-0-345	105	-	5.0	2	6.3CT	3.5	YY-34	6.5
27R75	TF4RX03HA	350-0-350	55	-	5.0	2	6.3CT	2	HA	3.25
27R50	TF4RX03YY	350-0-350	55	-	5.0	2	6.3CT	2	YY-28	3.25
27R61	TF4RX03JA	350-0-350	70	-	5.0	3	6.3CT	3	JA	4.5
27R25	TF4RX03KA	350-0-350	120	153	5.0	3	6.3CT	5	KA	8.75
27R05	TF4RX03KA	350-0-350	135‡	225	5.0	3	6.3CT	1	KA	8.75
		or								
		375-0-375	125	205			6.3CT	5		
27R26	TF4RX03LA	350-70-0-350	150	190	5.0	3	6.3CT	6	LA	10.75
							6.3	2		
27R06	TF4RX03LA	350-0-350	190	300	5.0	3	6.3CT	6	LA	10.75
		or								
		375-0-375					6.3CT	1.5		
27R28	TF4RX03MA	350-0-350	200	254	5.0	6	6.3CT	6	MA	15
		or								
		400-0-400								
		0-70	Bias				6.3	4		
27R30	TF4RX03YY	350-0-350	300	380	5.0	6	6.3CT	8	YY-45	21.75
		or								
		400-0-400								
		0-70	Bias				6.3	4		
27R07	TF4RX03MB	360-0-360	180‡	310	5.0	3	6.3CT	2	MB	14
		or								
		385-0-385	160	300			6.3CT	6		
27R08	TF4RX03NB	365-0-365	275‡	420	5.0	4	6.3CT	2	NB	15
		or								
		400-0-400	250	400			6.3CT	6		
27R72	TF4RX03MA	370-0-370	150	-	5.0	3	6.3CT	4	MA	11.5
							6.3CT	1		
27R47	TF4RX03YY	370-0-370	150	-	5.0	3	6.3CT	4	YY-42	11.5
							6.3CT	1		
27R82	TF4RX03NA	370-0-370	-	300	5.0	6	6.3CT	5	NA	17.5
		or								
		550-0-550					6.3CT	1		
		75-0-75	Bias							
27R57	TF4RX03YY	370-0-370	-	300	5.0	6	6.3CT	5	YY-43	17.5
		or								
		550-0-550					6.3CT	1		
		75-0-75	Bias							
27R71	TF4RX03KA	375-0-375	120	-	5.0	3	6.3CT	4	KA	9.5
27R46	TF4RX03YY	375-0-375	120	-	5.0	3	6.3CT	4	YY-34	9.5
27R73	TF4RX03MA	385-0-385	200	-	5.0	3	6.3CT	4.5	MA	12
							6.3CT	1		
27R48	TF4RX03YY	385-0-385	200	-	5.0	3	6.3CT	4.5	YY-42	12
							6.3CT	1		
27R27	TF4RX03LA	400-0-400	150	190	6.3/5	4	6.3CT	4	LA	11
		500-0-500					6.3	4		
27R89	TF4RX03LB003	400-0-400	-	175	5.0	3	6.3	8	LB	10
27R29	TF4RX03MA	400-0-400	200	254	6.3/5	4	6.3CT	5	MA	14.5
		500-0-500					6.3	5		
27R74	TF4RX03NA	400-0-400	250	-	5.0	6	6.3CT	7	NA	15
		80-0-80	Bias		5.0	2				
27R49	TF4RX03YY	400-0-400	250	-	5.0	6	6.3CT	7	YY-43	15
		80-0-80	Bias		5.0	2				
27R76	TF4RX03JA	425-0-425	-	70	5.0	2	6.3CT	3	JA	4.5
27R51	TF4RX03YY	425-0-425	-	70	5.0	2	6.3CT	3	YY-32	4.5
27R135	TF4RX03LB	425-0-425	80	-	5.0	3	6.3	5	LB	8
							6.3	2		
27R09	TF4RX03OA	425-0-425	280‡	430	5.0	6	6.3	8	OA	21
		or								
		525-0-525	260	400			6.3	4		
27R77	TF4RX03JA	440-0-440	-	85	5.0	2	6.3CT	3	JA	6

‡ Reduce secondary current by 10% for 50 Cycle operation

† C = Capacitor Input Filter
L = Choke Input Filter



MIL-T-27A

FOR HA, JA, JB, KA, KB, LA, LB, MA, MB, NB, OA
SEE PAGE 27

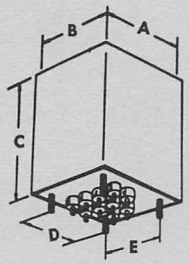
	A	B	C	D	E
YY-28	2.861	2.711	3.742	2	1 7/8
YY-32	3.245	2.979	4.242	2 3/8	2 1/8
YY-33	3.667	3.292	4.305	2 5/8	2 3/8
YY-34	3.667	3.292	4.680	2 5/8	2 3/8
YY-42	4.573	4.120	5.318	3 3/8	3
YY-43	5.323	4.792	6.068	3 3/8	3
YY-45	5 7/8	4 3/4	6 5/8	4 7/8	3 3/4

CONTINUED NEXT PAGE

Power

continued PRIMARY 117 VOLT 50/60 CYCLES

Part No.	MIL-T-27A Classification	PLATE SUPPLY Volts	MADC† C	MADC† L	RECTIFIER Volts	RECTIFIER Amps.	FILAMENT Volts	FILAMENT Amps.	Case Size	Wt. Lbs.
27R52	TF4RX03YY	440-0-440		85	5.0	2	6.3CT	3	YY-33	6
27R83	TF4RX03MA	440-0-440	165	-	5.0 6.3	3 .6	6.3 6.3 6.3	7.5 3 3	MA	12
27R58	TF4RX03YY	440-0-440	165	-	5.0 6.3	3 .6	6.3 6.3 6.3	7.5 3 3	YY-42	12
27R131	TF4RX03KB	450-0-450	100	-	5.0	3			KB	4
27R78	TF4RX03KA	450-0-450	-	105	5.0	2	6.3CT	3.5	KA	6.5
27R53	TF4RX03YY	450-0-450	-	105	5.0	2	6.3CT	3.5	YY-34	6.5
27R84	TF4RX03MA	450-0-450	200	-	5.0 6.3	2 .6	6.3 6.3	4 4	MA	12
27R59	TF4RX03YY	450-0-450	200	-	5.0 6.3	2 .6	6.3 6.3	4 4	YY-42	12
27R10	TF4RX03KA	450-0-450 500-0-500	- -	200 190	5.0	3	6.3CT 6.3CT	5 1	KA	6.5
27R90	TF4RX03MB004	450-0-450	250	-	5.0	3	6.3	8	MB	13
27R11	TF4RX03MB	450-0-450 525-0-525	- -	265 240	5.0	4	6.3 6.3	6 2	MB	13
27R132	TF4RX03HB	500-0-500	55	-	5.0CT	3			HB	3.8
27R79	TF4RX03KA	500-0-500	-	120	5.0	3	6.3CT	4	KA	9.5
27R54	TF4RX03YY	500-0-500	-	120	5.0	3	6.3CT	4	YY-34	9.5
27R12	TF4RX03OA	500-0-500 600-0-600	- -	300‡ 265	5.0	6	6.3	8	OA	21
27R80	TF4RX03MA	510-0-510	-	150	5.0	3	6.3CT 6.3CT	4 1	MA	11.5
27R55	TF4RX03YY	510-0-510	-	150	5.0	3	6.3CT 6.3CT	4 1	YY-42	11.5
27R81	TF4RX03MA	520-0-520	-	200	5.0	3	6.3CT 6.3CT	4.5 1	MA	12.5
27R56	TF4RX03YY	520-0-520	-	200	5.0	3	6.3CT 6.3CT	4.5 1	YY-42	12.5
27R133	TF4RX03GA	600-0-600	15	-	5.0CT	3			GA	2.2



MIL-T-27A

FOR GA, HB, KA, KB, LB, MA, MB, NB, OA SEE PAGE 27

	A	B	C	D	E
YY-33	3.667	3.292	4.305	2 5/8	2 3/8
YY-34	3.667	3.292	4.680	2 5/8	2 3/8
YY-42	4.573	4.120	5.318	3 3/8	3
YY-46A	6	5 1/8	6 3/4	5	4 3/16
YY-50	6 3/4	6 1/2	8	5 5/8	5 3/8

Plate

50/60 CYCLES

These plate transformers meet all requirements of Grade 4, MIL-T-27A specifications for Class R operation, including case sizes and mounting dimensions located on Page 27. The tapped high voltage winding provides either of the two voltages for greatest versatility. Units 27P31, 27P33 and 27P35 have been designed for use in both full wave CT and full wave bridge applications.

Part No.	MIL-T-27A Classification	Primary Voltage	SECONDARY Volts	SECONDARY MADC† C	SECONDARY MADC† L	Case Size	Wt. Lbs.
27P39	TF4RX02KB	115 @ 60 CPS	140-0-140	550	-	KB	7
27R91	TF4RX02KB001	105/115/125§	350-0-350	250	-	KB	7.5
27P40	TF4RX02YY	115 @ 60 CPS	400-0-400	200	350	YY-42	6
27R92	TF4RX02LB002	105/115/125§	550-0-550	250	-	LB	11
27R93	TF4RX02NB003	105/115/125§	800-0-800	250	-	NB	16.5
27P31	TF4RX02MB	105/115/210/230	525-0-525 600-0-600	- -	210 190	MB	14
27P30	TF4RX02MB	105/115/210/230	525-0-525 600-0-600	- -	300 275	MB	14
27P33	TF4RX02NA	105/115/210/230	525-0-525 600-0-600	- -	350 310	NA	18
27P32	TF4RX02NA	105/115/210/230	525-0-525 600-0-600	- -	500 450	NA	18
27P35	TF4RX02NA	105/115/210/230	750-0-750 950-0-950	- -	220 190	NA	18
27P34	TF4RX02NA	105/115/210/230	750-0-750 950-0-950	- -	320 275	NA	18
27P36	TF4RX02YY	105/115/210/230	1,250-0-1,250 1,500-0-1,500	- -	310 275	YY-46A	27
27P37	TF4RX02YY	105/115/210/230	1,250-0-1,250 1,500-0-1,500	- -	475 425	YY-50**	50
27P38	TF4RX02YY	105/115/210/230	1,750-0-1,750 2,200-0-2,200	- -	275 235	YY-50	50

** Terminals located opposite of mounting studs
‡ Reduce secondary current by 10% for 50 Cycle operation
§ 54 to 66 Cycles
† C = Capacitor Input Filter
L = Choke Input Filter

CONTINUED NEXT PAGE

400 CPS Operation

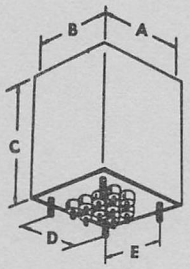
Power

PRIMARY 105/115/125 VOLTS, 380-1000 CYCLES

These transformers have been designed to meet all requirements of MIL-T-27A for their specific class of operation. All EB, GA, GB, etc. case sizes are identical to MIL-T-27A specifications listed on Page 27, while all YY case sizes are listed at the side of this page. These units meet the rigid requirements for aircraft and mobile communication, control equipment, guided missile control as well as marine equipment and any field where maximum sealing quality is a prime requisite.

Part No.	MIL-T-27A Classification	PLATE SUPPLY Volts	MADC† C	MADC† L	RECTIFIER Volts	RECTIFIER Amps.	FILAMENT Volts	FILAMENT Amps.	Case Size	Wt. Lbs.
27R35●	TF4RX03JA	225-0-225	200	254	6.3/5	4	6.3CT 6.3	6 6	JA	5.5
27R31●	TF4RX03AJ	238-0-238	20	25.4			6.3CT	1.5	AJ	.75
27R62●	TF4RX03EB	250-0-250	40	-			6.3CT 6.3	2 1	EB	1.5
27R106	TF4SX03GB	255-0-255	40	-	5.0	2	6.3CT	2	GB	1.5
27R94	TF4SX03FA	270-0-270	55	-	5.0	2	6.3CT	2	FA	1.5
27R107	TF4SX03GB	270-0-270	55	-	5.0	2	6.3CT	2	GB	1.75
27R114	TF4SX03YY	270-0-270	55	-	5.0	2	6.3CT	2	YY-18	1.5
27R32●	TF4RX03GA	300-0-300	70	89	6.3/5	2	6.3CT 6.3	2 2	GA	2.7
27R33●	TF4RX03JB	300-0-300	120	152	6.3/5	3	6.3CT 6.3	3.5 3.5	JB	4.6
27R36●	TF4RX03KB	300-0-300 or 400-0-400	200	254	6.3/5	6	6.3CT 6.3	6 6	KB	7.5
27R37●	TF4RX03LA	300-0-300 or 400-0-400	300	380	6.3/5	6	6.3CT 6.3	6 6	LA	10
27R109	TF4SX03GA	330-0-330	85	-	5.0	2	6.3CT	3	GA	2.5
27R95	TF4SX03FA	335-0-335	70	-	5.0	2	6.3CT	3	FA	1.75
27R108	TF4SX03GB	335-0-335	70	-	5.0	2	6.3CT	3	GB	1.75
27R115	TF4SX03YY	335-0-335	70	-	5.0	2	6.3CT	3	YY-18	1.75
27R110	TF4SX03GA	345-0-345	105	-	5.0	2	6.3CT	3.5	GA	2.25
27R121	TF4SY03HA	350-0-350	70	-	5.0	3	6.3	3	HA	2.25
27R124	TF4SX03JA	350-0-350 or 450-0-450	120	-	5.0	3	6.3	4	JA	3.8
27R34●	TF4RX03HA	350-0-350	150	190	6.3/5	3	6.3CT	4	HA	3.75
27R122	TF4SX03KB	350-0-350	300	-	5.0	3	6.3	5	KB	5.2
27R111	TF4SX03JB	370-0-370	150	-	5.0	3	6.3CT 6.3CT	4 1	JB	4.25
27R99	TF4SX03KA	370-0-370 or 550-0-550 75-0-75	- Bias	300	5.0	6	6.3CT 6.3CT	5 1	KA	6.5
27R119	TF4SX03YY	370-0-370 or 550-0-550 75-0-75	- Bias	300	5.0	6	6.3CT 6.3CT	5 1	YY-34	6.5
27R96	TF4SX03HA	375-0-375	120	-	5.0	3	6.3CT	4	HA	2.5
27R116	TF4SX03YY	375-0-375	120	-	5.0	3	6.3CT	4	YY-28	2.5
27R97	TF4SX03JA	440-0-440	165	-	5.0	3	6.3 6.3 6.3 6.3	7.5 3 3 .6	JA	6
27R112	TF4SX03KB	440-0-440	165	-	5.0	3	6.3 6.3 6.3 6.3	7.5 3 3 .6	KB	6.5
27R117	TF4SX03YY	440-0-440	165	-	5.0	3	6.3 6.3 6.3 6.3	7.5 3 3 .6	YY-33	6
27R98	TF4SX03JA	450-0-450	200	-	5.0	2	6.3 6.3 6.3	4 4 .6	JA	5.75
27R113	TF4SX03KB	450-0-450	200	-	5.0	2	6.3 6.3 6.3	4 4 .6	KB	6.5
27R118	TF4SX03YY	450-0-450	200	-	5.0	2	6.3 6.3 6.3	4 4 .6	YY-33	6
27R123	TF4SX03MB	450-0-450		500	5.0	6	6.3	6	MB	7

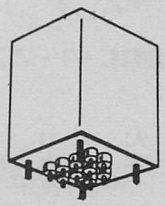
● Primary 115 Volts 380-1,000 Cycles
† C = Capacitor Input Filter
L = Choke Input Filter



MIL-T-27A

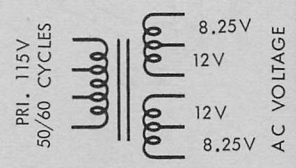
FOR AJ, EB, FA, GA, GB, HA, JA, JB, KA, KB, LA, MB SEE PAGE 27

	A	B	C	D	E
YY-18	2.241	2.101	2.930	1 9/16	1 3/8
YY-28	2.861	2.711	3.742	2	1 7/8
YY-33	3.667	3.292	4.305	2 5/8	2 3/8
YY-34	3.667	3.292	4.680	2 5/8	2 3/8



MIL

SEE PAGE 27



WITH -6%
+6 & 12%
PRIMARY TAPS

Low Voltage Rectifier-Mil-T-27A

LOW VOLTAGE D C SUPPLY— TRANSISTOR D C SUPPLY— TELEPHONE SUPPLY—
BATTERY CHARGES — BIAS SUPPLY — PLATING SUPPLY.
SEE VOLTAGE CHART BELOW.

PRIMARY 115 VOLTS 50/60 CYCLES

Part No.	Military DC Range	Industrial DC Range	MIL Case	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27V60	6V - .065A to 53V - .02A	6V - .085A to 53V - .025A	AH	1 1/4	1 3/4	1 5/16	1 5/16	.37
27V61	6V - .22A to 53V - .07A	6V - .28A to 53V - .085A	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.6
27V62	6V - 1.2A to 53V - .4A	6V - 1.52A to 53V - .48A	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	1.75
27V63	6V - 3A to 53V - 1A	6V - 3.8A to 53V - 1.2A	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	4.5
27V64	6V - 7.5A to 53V - 2.5A	6V - 9A to 53V - 3A	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	8.5
27V65	6V - 18A to 53V - 6A	6V - 23A to 53V - 7.5A	OA	3 3/4 x 3	6 3/4	4 1/2	5 1/2	21
27V66	12V - 1.5A to 106V - .5A	12V - 1.9A 106V - .6A	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	4.5

Mil-T-27A and Industrial Ratings

THE FOLLOWING CHART SHOWS THE D C CURRENT RATING (IN AMPS) AND THE APPROXIMATE D C VOLTAGE AT THE DIFFERENT A C VOLTAGE TAPS. CAPACITIVE INPUT FILTER VALUE (SHOWN IN PARENTHESIS) IS GIVEN IN 1,000 MFD. PRIMARY TAPS PROVIDE ADDITIONAL SECONDARY VOLTAGE VALUES OF -6%, +6% & +12%.

	FULL WAVE BRIDGE SILICON RECTIFIER								FULL WAVE CT		
AC Volts* / DC Volts*	40.5 / 53	32.25 / 41	28.5 / 34	24 / 25	20.25 / 24	16.5 / 18	12 / 12	8.25 / 6	40.5CT / 24	24CT / 12	16.5CT / 6.6
27V60	.02 (.1)	.023(.1)	.025(.1)	.027(.1)	.042(.2)	.035(.2)	.055(.2)	.065(.2)	.035(.2)	.040(.2)	.055(.2)
27V60#	.025(.1)	.035(.1)	.040(.1)	.042(.1)	.055(.2)	.042(.2)	.070(.2)	.085(.2)	.042(.2)	.055(.2)	.068(.2)
27V61	.07 (.1)	.08 (.1)	.085(.1)	.09 (.1)	.14 (.2)	.11 (.2)	.18 (.2)	.22 (.2)	.11 (.2)	.13 (.2)	.17 (.2)
27V61#	.085(.1)	.12 (.1)	.13 (.1)	.14 (.1)	.18 (.2)	.14 (.2)	.23 (.2)	.28 (.2)	.14 (.2)	.17 (.2)	.21 (.2)
27V62	.4 (.5)	.44 (.5)	.48 (.5)	.52 (.5)	.8 (1)	.6 (1)	1.0 (2)	1.2 (2)	.6 (1)	.72 (1)	.92 (2)
27V62#	.48 (.5)	.6 (.5)	.6 (.5)	.64 (.5)	1.0 (1)	.8 (1)	1.2 (2)	1.52 (2)	.8 (1)	.88 (1)	1.12 (2)
27V63	1 (.5)	1.1 (.5)	1.2 (.5)	1.3 (.5)	2 (1)	1.5 (1)	2.5 (2)	3 (2)	1.5 (1)	1.8 (1)	2.3 (2)
27V63#	1.2 (.5)	1.5 (.5)	1.5 (.5)	1.6 (.5)	2.5 (1)	2 (1)	3 (2)	3.8 (2)	2 (1)	2.2 (1)	2.8 (2)
27V64	2.5 (1)	3 (1)	3 (1)	3.5 (1)	5 (2)	3.7 (2)	6 (4)	7.5 (4)	3.7 (2)	4.5 (2)	5.5 (4)
27V64#	3 (1)	3.5 (1)	3.8 (1)	4 (1)	6 (2)	4.5 (2)	7.5 (4)	9 (4)	4.5 (2)	5.5 (2)	6.7 (4)
27V65	6 (4)	7 (4)	7.5 (4)	8 (4)	12 (6)	9 (6)	15 (12)	18 (12)	9 (6)	11 (6)	13.5 (12)
27V65#	7.5 (4)	8.5 (4)	9.5 (4)	10 (4)	15 (6)	11 (6)	19 (12)	23 (12)	11 (6)	13.5 (6)	17 (12)

AC Volts* / DC Volts*	81 / 106	64.5 / 82	57 / 68	48 / 50	40.5 / 48	33 / 36	24 / 24	16.5 / 12	81CT / 48	48CT / 24	33CT / 13
27V66	0.5 (.125)	0.55 (.125)	0.6 (.125)	0.65 (.125)	1.0 (.25)	0.75 (.25)	1.25 (.5)	1.5 (.5)	0.75 (.25)	0.9 (.25)	1.15 (.5)
27V66#	0.6 (.125)	0.75 (.125)	0.75 (.125)	0.8 (.125)	1.25 (.25)	1.0 (.25)	1.5 (.5)	1.9 (.5)	1.0 (.25)	1.1 (.25)	1.4 (.5)

* Nom. AC and DC volts are at 115 volt input . . . primary taps can modify —6%, +6%, and +12%
\# Industrial Ratings

Mil-T-27A

Low Voltage Rectifier Transformers continued

PRIMARY 117 VOLT
50/60 CYCLES

These units have been designed and built to meet MIL-T-27A, Grade 4, Class R specifications. Ideally suited for Selenium or Silicon rectifier power supplies used for transistor circuits.

Part No.	MIL-T-27A Classification	Secondary Volts	Secondary Amps.	SECONDARY IN PARALLEL Choke Input DC V	DC A	Condenser Input DC V	DC A	C	SECONDARY IN SERIES Choke Input DC V	DC A	Condenser Input DC V	DC A	C	Case Size
27V73	TF4RX02KA	10	20	8.2	20	10	13	12						KA
27V69●	TF4RX02HA	17/21.5 17/21.5	1.5 1.5	14/17.5	3	18.5/25	2	1	28/35	1.5	43/56	1	.5	HA
27V70●	TF4RX02LA	17/21.5 17/21.5	4 4	14/17.5	8	18.5/25	5	2	28/35	4	43/56	2.5	1	LA
27V71●	TF4RX02YY	17/21.5 17/21.5	9 9	14/17.5	18	18.5/25	12	6	28/35	9	43/56	6	4	RC-175
27V67	TF4RX02EB Full Wave CT	20CT	.3	16.5 8	.3 .43	26 12	.2 .3	.2 .5						EB
27V68	TF4RX02EA Full Wave CT	20CT	.6	16.5 8	.6 .85	26 13	.4 .6	4 1						EA
27V72●	TF4RX02YY	34/43 34/43	4.5 4.5	28/35	9	43/46	6	4	56/70	4.5	85/110	3	1	RC-175

Signaling And Power Circuit Transformers

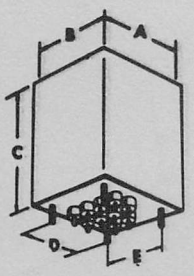
Part No.	MIL-T-27A Classification	Primary Voltage	Secondary Voltage	VA Output	Case Size	Wt. Lbs.
27V31	TF4RX03AJ	115	6	7.2	AJ	.75
27V28	TF4RX03JB	115	6, 8, 10, 12, 14	50	JB	5
27V32	TF4RX03MB	115	26	250	MB	13

Line Isolation Transformers 50/60 CYCLES

Part No.	MIL-T-27A Classification	Primary Voltage	Secondary Voltage	VA Output	Case Size	Wt. Lbs.
27V20	TF4RX01YY	440	220	25	YY-29	2
27V44	TF4RX01JB	115/230	105/115/125	50	JB	4.7
27V23	TF4RX01KB	115	115	115	KB	6
27V45	TF4RX01KA	115/230	105/115/125	125	KA	9.25
27V46	TF1RX01NB	115/230	105/115/125	250	NB	17.25
27V24	TF4SX01YY	115	115	600	YY-47	27
27V21	TF2RX01ZZ	115/230	115/230 †	670	ZZ	21
27V25	TF1SX01YY	115	115*	1,000	YY-47A	35
27V19	TF1RX01YY	440	115*	1,000	YY-47	40
	AUTOFORMER					
27V22	TF1RX01YY	105/115/125	25/35/45/65/ 75/85/95/ 105/115/125	2,000	TSV	20

† Secondary windings may be used independently to supply two isolated 115 Volt windings at 2.9 Amps. each
* Static Shielded
● Primary tapped for Dual secondary Voltage

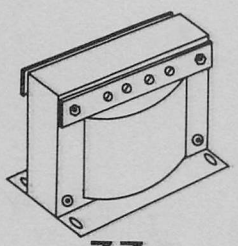
CONTINUED NEXT PAGE



MIL-T-27A

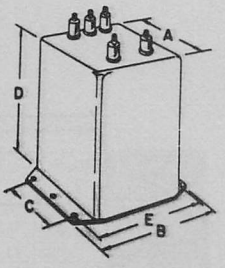
FOR AJ, EA, EB, HA, JB, KA, KB, LA, LB, NB, MB, SEE PAGE 27

	A	B	C	D	E
YY-47	6 1/4	5 3/4	6 3/4	5 1/8	4 1/4
YY-47A	6 1/4	5 3/4	6 3/4	4 1/4	4 1/2



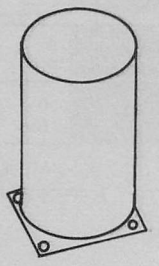
ZZ

6 1/2 WIDE
5 3/4 DEEP
5 1/2 HIGH
5 5/16 x 4 1/4 MTG. CENTERS
ENCAPSULATED TO MEET MIL-T-27A



TSV

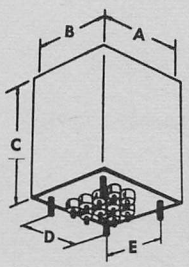
	A	B	C	D	E
TSV	5 1/2	8	4 1/4	8 1/2	7 1/2
YY-29	3	2 1/2	3 5/16	2 11/16	1 3/4



RC-175

5 3/4 x 5 3/4 CASE
7 HIGH
4 7/8 x 4 7/8 MTG. CENTERS

Mil-T-27A Steel Jacket Line



MIL-T-27A

FOR EA, FA, GA, HA, JA, KA, NB
SEE PAGE 27

	A	B	C	D	E
YY-28	2.861	2.711	3.742	2	1 7/8

Line Isolation Transformers

380-1500 CYCLES

These units have been designed and built to meet MIL-T-27A, Grade 4, Class R specifications. All units are static shielded.

Part No.	MIL-T-27A Classification	Primary Voltage	Secondary Voltage	VA Output	Case Size	Wt. Lbs.
27V54	TF4RX01EA	115	115	40	EA	1.5
27V55	TF4RX01FA	115	115	80	FA	2
27V56	TF4RX01GA	115	115	160	GA	3.1
27V57	TF4RX01JA	115	115	300	JA	6.25
27V58	TF4RX01KA	115	115	505	KA	8.75

Step-Down Transformers

THREE PHASE-400 CYCLES

400 Cycle 3-Phase. 27V17 and 27V18 are YY connected 400 Cycle 3-Phase Step-Down Transformers. Primary 115 Volts per phase. Designed for use primarily in airborn communication and control equipment.

Part No.	MIL-T-27A Classification	Primary Voltage	Secondary Voltage	VA Output	Case Size	Wt. Lbs.
27V17	TF1RX01HA	115	28.5	140	HA	3
27V18	TF1RX01YY	115	28.5	140	YY-28	3

Ultra Shielded-Line Isolation

50/60 CYCLES EPOXY POTTED - WITH LEADS

These Ultra-shielded line isolation transformers have been specifically designed for critical circuitry where minimum coupling capacity is imperative for complete balance. Vacuum potted with epoxy resin in standard MIL-T-27A cases (listed on Page 27). Capacity between windings is less than .03 MMFD. Designed and built to meet MIL-T-27A, Grade 2, Class R specifications.

Part No.	MIL-T-27A Classification	Primary Voltage	Secondary Voltage	VA Output	Case Size	Wt. Lbs.
27V47	TF2RX01GA	115	115	25	GA	3
27V48	TF2RX01KA	115	115	115	KA	8.5
27V49	TF2RX01NB	115	115	300	NB	20

MIL-T-27A Steel Jacket Line

MILITARY STANDARD TRANSFORMERS

The U. S. Army Signal Corps, U. S. Bureau of Ships, and the U. S. Air Force, working jointly through the Armed Services Electronic Standards Agency, and in cooperation with leading producers of military transformers, have established certain military standard transformers.
These transformers bear government classification and part numbers, as shown below. Dimensions, mounting centers, terminal arrangements, and markings are all in accordance with government specifications.
All these units will meet the requirements of Grade 1 and Grade 4 MIL-T-27A specifications for Class R operation.
The components listed in this series have application in military communication and control equipment, whether air-borne, ship-borne, mobile or ground installed.

Input

300 TO 10,000 CPS
MAXIMUM ALTITUDE 50,000 FT.

Part No.	MIL-T-27A Classification	MIL-T-27A Part No.	Primary Impedances (Ohms)	Max. D.C. Amps. In Primary	Secondary Impedance (Ohms)	Max. Power Level	Case Size	Wt. Lbs.
27A02	TF1RX10AJ001	MS-90002	*600 ohms CT		135,000 ohms CT	15 dbm.	AJ	.75

Interstage

300 TO 10,000 CPS
MAXIMUM ALTITUDE 50,000 FT.

Part No	MIL-T-27A Classification	MIL-T-27A Part No.	Primary Impedances (Ohms)	Max. D.C. Amps. in Primary	Secondary Impedance (Ohms)	Max. Power Level	Case Size	Wt. Lbs.
27A03	TF1RX16AJ001	MS-90003	*600 ohms CT		*600 ohms CT	15 dbm.	AJ	.75
27A01	TF1RX15AJ001	MS-90000	10000 ohms CT	.010 amp.	22,500 ohms CT 22,500 ohms CT	15 dbm.	AJ	.75

Output

300 TO 10,000 CPS
MAXIMUM ALTITUDE 50,000 FT.

Part No.	MIL-T-27A Classification	MIL-T-27A Part No.	Primary Impedances (Ohms)	Max.D.C. Amps. in Primary	Secondary Impedance (Ohms)	Max. Power Level	Case Size	Wt. Lbs.
27S01	TF1RX16AJ002	MS-90001	*600 ohms CT		4/8/16 ohms	2 watts	AJ	1
27S02	TF1RX13AJ001	MS-90004	4800/7600	.040 amp.	*600 ohms CT	2 watts	AJ	1
27S03	TF1RX13AJ002	MS-90005	4800/7600	.040 amp.	4/8/16 ohms	2 watts	AJ	1
27S04	TF1RX13AJ003	MS-90006	15000 ohms CT	.010 amp.	*600 ohms CT	2 watts	AJ	1
27S05	TF1RX13AJ004	MS-90007	24000 ohms CT	.020 amp.	*600 ohms CT	1 watt	AJ	1
27S06	TF1RX13AJ005	MS-90008	60000 ohms CT	.020 amp.	*600 ohms CT	.5 watt	AJ	1

Chokes

Part No.	MIL-T-27A Classification	MIL-T-27A Part No.	Inductance (Henrys)		Current (MADC)		Case Size
			Series	Parallel	Series	Parallel	
27C01	TF1RX04FA001	MS-90009	16	4	80	160	FA
27C02	TF1RX04GA002	MS-90010	25	6.25	80	160	GA
27C03	TF1RX04HA003	MS-90011	40	10	80	160	HA
27C04	TF1RX04HA005	MS-90013	16	4	125	250	HA
27C05	TF1RX04JB006	MS-90014	25	6.25	125	250	JB
27C06	TF1RX0KA007	MS-90037	40	10	125	250	KA
27C07	TF1RX04LA009	MS-75000	16	4	200	400	LA
27C08	TF1RX04MA010	MS-75001	25	6.25	200	400	MA
27C09	TF1RX04NA012	MS-75002	16	4	315	630	NA
27C10	TF1RX04YY013	MS-75003	25	6.25	315	630	YY

Filament Transformers

PRIMARY—105/115/125V—FREQUENCY—54-66 CYCLES

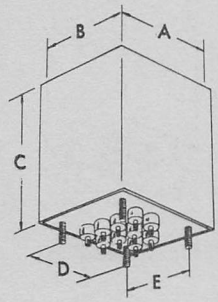
Part No.	MIL-T-27A Classification	MIL-T-27A Part No.	Secondary		Insulation Volts RMS	Case Size	Wt. Lbs.
			Volts	Amps			
27F36	TF1RX01EB002	MS-90016	2.5	3.0	2500	EB	1 1/2
27F37	TF1RX01GB003	MS-90017	2.5	10	2500	GB	2 1/2
27F38	TF1RX01FB004	MS-90018	5.0	3.0	2500	FB	1 3/4
27F39	TF1RX01HB005	MS-90019	5.0	10	2500	HB	4
27F40	TF1RX01FB006	MS-90020	6.3	2.0	2500	FB	1 3/4
27F41	TF1RX01GB007	MS-90021	6.3	5.0	2500	GB	2 3/4
27F42	TF1RX01JB008	MS-90022	6.3	10	2500	JB	5
27F43	TF1RX01KB009	MS-90023	6.3	20	2500	KB	8
27F44	TF1RX01JB012	MS-90024	2.5	10	10000	JB	4 3/4
27F45	TF1RX01KB013	MS-90025	5.0	10	10000	KB	7

Power Transformers — Reactor Input Systems

PRIMARY—105/115/125 V.
FREQUENCY—54-66 CYCLES

Part No.	MIL-T-27A Classification	MIL-T-27A Part No.	Secondary		D-C V Output	Rectifier Filament		Filament No. 2		Case Size	Wt. Lbs.
			A-C Volts	D-C MA.		Volts	Amps	Volts	Amps		
27R86	TF1RX03HA001	MS-90026	200-100-0-100-200	70	385	6.3/5	2	6.3	3	HA	4
27R87	TF1RX03JB002	MS-90027	325-0-325	70	260	6.3/5	2	6.3	4	JB	5
27R88	TF1RX03KB006	MS-90028	325-0-325	150	245	6.3	5	5	3	KB	7 1/4
27R89	TF1RX03LB003	MS-90029	400-0-400	175	318	5	3	6.3	8	LB	10
27R90	TF1RX03MB004	MS-90030	450-0-450	250	345	5	3	6.3	8	MB	13
27R91	TF1RX02KB001	MS-90031	350-0-350	250	255					KB	7 1/2
27R92	TF1RX02LB002	MS-90032	550-0-550	250	419					LB	11
27R93	TF1RX02NB003	MS-90036	800-0-800	250	640					NB	16 1/2

* Split center tap—balanced windings.



MIL-T-27A
CASE TYPE

CASE DIMENSIONS

	AJ	EB	FA	FB	GA
A	1 5/8	1 15/16	2 5/16	2 5/16	2 3/4
B	1 5/8	1 13/16	2 1/16	2 1/16	2 3/8
C	2 3/8	2 7/16	3 1/8	2 1/2	3 13/16
D	1 3/16	1 3/8	1 11/16	1 11/16	2 1/8
E	1 3/16	1 1/4	1 7/16	1 7/16	1 3/4

	GB	HA	HB	JB
A	2 3/4	3 1/16	3 1/16	3 9/16
B	2 3/8	2 5/8	2 5/8	3 1/16
C	2 13/16	4 1/4	3 3/16	3 7/8
D	2 1/8	2 19/64	2 19/64	2 5/8
E	1 3/4	1 55/64	1 55/64	2 1/8

	KA	KB	LA	LB
A	3 15/16	3 15/16	4 5/16	4 5/16
B	3 3/8	3 3/8	3 11/16	3 11/16
C	5 1/4	4 5/16	5 9/16	4 1/2
D	3	3	3 5/16	3 5/16
E	2 7/16	2 7/16	2 11/16	2 11/16

	MA	MB	NA	NB
A	4 11/16	4 11/16	5 1/16	5 1/16
B	4	4	4 5/16	4 5/16
C	6	4 15/16	6 13/16	5 1/2
D	3 11/16	3 11/16	4 1/16	4 1/16
E	3	3	3 5/16	3 5/16

REFER TO PAGE 67 FOR STUD AND TERMINAL SIZE

Geophysical Transformers

This line of Geophysical Transformers has been designed to perform in geophysical recording equipment and other low frequency instrumentation with the maximum protection against physical and climatic hazards. Geophysical Transformers must be small in size – must have an extra high shielding factor – and must have an extremely low frequency response; all these factors are available in these Geophysical Transformers.

These Transformers are designed and built to meet all the specifications of MIL-T-27A.

Specifications

FREQUENCY RESPONSE: A frequency range of 5 to 2000 cycles ± 0 db has been maintained with almost all of these Geophysical Transformers. The 3 db point in many applications has been set at one cycle per second or lower, while the high frequency response has been intentionally set to be – 3 db at 8,000 to 10,000 cycles per second.

INDUCTANCE TOLERANCE: A tolerance of ± 5% is maintained over all production runs; however, individual shipments may be within ± 2% of rated inductance. Output Transformers and Reactors are checked at 100 Millivolts. Input and Interstage Transformers are checked at 10 Millivolts.

RESISTANCE: Since insertion losses must be as low as possible these Geophysical Transformers have been designed to provide the lowest possible D.C. Resistance consistant with size.

STATIC SHIELDING: All input and interstage Geophysical Transformers have a Faraday electro-static shield.

IMPREGNATION: Only the highest quality impregnating and potting materials are used in the construction of these units. They are first adjusted then baked, vacuum impregnated and then baked again. After cooling, the units are checked for inductance and then encased, preheated and compound filled; after which the units are again electrically tested.

FINISH: These Geophysical Transformers are finished in the very highest quality of grey enamel.

MARKING: Each transformer is permanently marked with its rating and part number.

Available Shielding

The GEO series transformers are cased in drawn mumetal cases which have been dry hydrogen annealed after drawing. These cases provide the highest permeability and thus the highest shielding factor possible with a single case. By interleaving (or nesting) mumetal and copper cases the shielding is increased many times; humbucking core and coil construction provides an additional shielding of 45 db.

SHIELDING SPECIFICATIONS

The following chart gives the shielding (in the most effective plane) for various combinations of cases

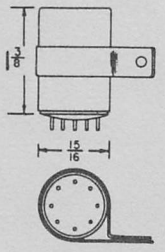
Total Number of Cases	Number of Mumetal Cases	Number of Copper Cases	Humbucking Core and Coil	Shielding in db
1	1			45
1	1		Yes	90
3	2	1		70
3	2	1	Yes	115
5	3	2		95
5	3	2	Yes	135

Geophysical

Chopper Input Transformers

STATIC SHIELDED

Part No.	Impedance In Ohms Primary	Impedance In Ohms Secondary	Primary Inductance	DC Resistance Primary	DC Resistance Secondary	Turns Ratio	Case Type	Wt. In Oz.
GEO-68	10,000CT or 2,500	640,000CT	120 h.	370	21,000	1:8	3A	5.25
GEO-69	20,000CT	12,500CT	1,200 h.	4,000	1,300	4:1	3A	5.25
GEO-70	50,000CT	800,000CT	1,000 h.	2,200	19,000	1:4	4A	7.75
GEO-71■	50,000CT	800,000CT	1,000 h.	2,200	19,000	1:4	6A	1 lbs.
GEO-72	40,000CT	1,000CT	1,000 h.	4,400	160	6.32:1	3A	5.25
GEO-73	40,000CT or 10,000CT	10,000CT	800 h.	3,200	2,200	2:1	3A	5.25

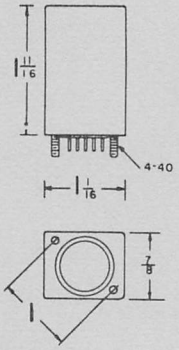


Case No.1

Input

ALL UNITS HAVE HUMBUCKING CORE AND COIL CONSTRUCTION

Part No.	Impedance In Ohms Primary	Impedance In Ohms Secondary	Primary Inductance	DC Resistance Primary	DC Resistance Secondary	Turns Ratio	Case Type	Wt. In Oz.
GEO-1	500§-333-233-200§-125*-67.5§-50*-17*	157,000§CT	8.7 h.	50	10,400	1:17.7	3	5.25
GEO-74★	500§-333-233-200§-125*-67.5§-50*-17*	157,000§CT	8.7 h.	50	10,400	1:17.7	4A	8
GEO-2■	500§-333-233-200§-125*-67.5§-50*-17*	157,000§ or 39,250	8.7 h.	50	10,400	1:17.7	5	11.5
GEO-3	60§-44-30§-25-15*-7.5*-5§-1.25	157,000§CT	.9 h.	9	10,400	1:51	4	5.25
GEO-75★	60§-44-30§-25-15*-7.5*-5§-1.25	157,000§CT	.9 h.	9	10,400	1:51	4A	8
GEO-4■	60§-44-30§-25-15*-7.5*-5§-1.25	157,000§CT or 39,250	.9 h.	9	10,400	1:51	5	11.5
GEO-5	1,000§-666-466-400§-250*-135§-100*-34*	137,000§ or 34,250*	55 h.	225	15,500	1:11.75	4	7.75
GEO-76■	1,000§-666-466-400§-250*-135§-100*-34*	137,000§ or 34,250*	55 h.	225	15,500	1:11.75	6A	1 lbs.
GEO-6	500§-333-233-200§-125*-67.5§-50*-17*	315,000§ or 78,750*	11.5 h.	58	16,200	1:25	4	7.75
GEO-7■	500§-333-233-200§-125*-67.5§-50*-17*	315,000§ or 78,750*	11.5 h.	58	16,200	1:25	6	1 lb.
GEO-8	500§-333-233-200§-125*-67.5§-50*-17*	712,000§ or 178,000*	8 h.	72	20,000	1:37.7	4	7.75
GEO-9■	500§-333-233-200§-125*-67.5§-50*-17*	712,000§ or 178,000*	8 h.	72	20,000	1:37.7	6	1 lbs.
GEO-10	500§ or 125*	50,000§CT	10 h.	150	20,000	1:10	3	5.25
GEO-11	500§-333-233-200§-125*-67.5§-50*-17*	450,000§CT	6.8 h.	54	12,500	1:30	3	5.25
GEO-77■	500§-333-233-200§-125*-67.5§-50*-17*	145,000 CT Bal.	8.3 h.	120	10,000	1:17	4A	10
GEO-12■	500§CT	200,000§CT	12 h.	80	9,800	1:20	6	1 lbs.
GEO-13	500§ or 125*	50,000§CT	10 h.	200	36,000	1:10	4	7.75
GEO-14★	200§ or 50*	442,000§CT	4 h.	17	26,000	1:47	4	8



Case No.2

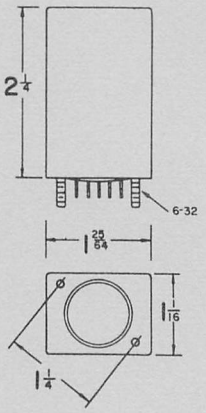
Case No.2A

SAME AS NO. 2 EXCEPT 2A IS 1 13/16 HIGH

Input

MINIATURE AND SUB MINIATURE
ALL UNITS HAVE HUMBUCKING CORF AND COIL CONSTRUCTION

Part No.	Impedance In Ohms Primary	Impedance In Ohms Secondary	Primary Inductance	DC Resistance Primary	DC Resistance Secondary	Turns Ratio	Case Type	Wt. In Oz.
GEO-15	500§-333-233-200§-125*-67.5§-50*-17*	145,000§CT	8.8 h.	100	10,000	1:17	2	3.2
GEO-16	500*-125*	145,000§CT	8.8 h.	100	10,000	1:17	2	3.2
GEO-17	500§-125*	145,000§CT	3 h.	106	5,860	1:17	1	1.5
GEO-18	500§-125*	60,000§CT	7 h.	140	5,600	1:11	1	1.5
GEO-19	500§-125*	36,000§CT	10.5 h.	320	5,300	1:8.5	1	1.5
GEO-20	500§-125*	114,000§CT	5.2 h.	210	6,200	1:15.1	1	1.5
GEO-21	500§-125*	157,000§CT	8	100	9,500	1:17.7	2	3.2



2 1/4 HIGH

Case No.3

Case No.3A

1 1/4 WIDE
1 1/16 DEEP
2 1/8 HIGH
1.220 MTG.CENTERS

§ Balanced, Two Windings
* Balanced, Parallel Windings

★ Constructed with 3 Interleaved Cases
■ Constructed with 5 Interleaved Cases

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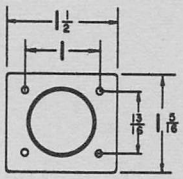
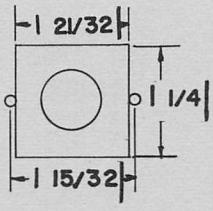


2 3/8 HIGH

Case No.4

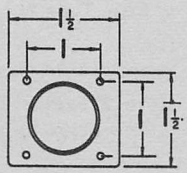
Case No.4 A

1 1/2 WIDE
1 1/4 DEEP
2 3/8 HIGH
1 x 3/4 MTG.CENTERS



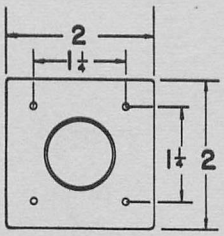
2 3/8 HIGH

Case No.4 B



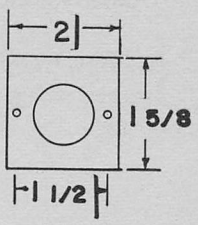
2 1/2 HIGH

Case No.5



2 3/4 HIGH

Case No.6



2 3/4 HIGH

Case No.6A

Interstage

ALL UNITS HAVE HUMBUCKING CORE AND COIL CONSTRUCTION continued

Part No.	Impedance In Ohms		Primary Inductance	DC Resistance		Turns Ratio	Case Type	Wt. In Oz.
	Primary	Secondary		Primary	Secondary			
GEO-22	10,000§ or 2,500*	100,000§ or 25,000*	350 h.	1,540	10,000	1:3.16	3	5.25
GEO-23■	10,000§ or 2,500*	100,000§ or 25,000*	350 h.	1,540	10,000	1:3.16	5	11.5
GEO-24	10,000§ or 2,500*	90,000§ or 25,000*	725 h.	2,100	14,000	1:3	4	7.75
GEO-25■	10,000§ or 2,500*	90,000§ or 22,500*	725 h.	2,100	14,000	1:3	6	1 lbs.
GEO-26	10,000§ or 2,500*	483,000§ or 120,700*	230 h.	1,100	17,000	1:7	4	7.75
GEO-84	10,000§ or 2,500*	483,000§ or 120,700*	230 h.	1,100	17,000	1:7	6A	1 lbs.
GEO-27●	10,000§ or 2,500*	22,500* or 5,625*	135 h.	1,600	2,350	1:1.5	2	2.75
GEO-83■	10,000§ or 2,500*	22,500* or 5,625*	135 h.	1,600	2,350	1:1.5	4A	10
GEO-28●	10,000§ or 2,500*	250§ or 62.5*	18 h.	165	40	2:1	2	2.75
GEO-85■	10,000§ or 2,500*	250§ or 62.5*	18 h.	165	40	2:1	4B	10
GEO-29	10,000§ or 2,500*	75,000§ or 18,750*	300 h.	2,500	8,500	1:2.75	2	3.2
GEO-30	10,000§ or 2,500*	75,000§CT	80 h.	1,700	5,400	1:2.72	1	1.5
GEO-31	10,000§ or 2,500*	22,500§CT	160 h.	2,600	3,900	1:1.5	1	1.5
GEO-32	10,000§ or 2,500*	90,000§CT	285 h.	2,600	9,500	1:3	2	3.2
GEO-86■	10,000§ or 2,500*	90,000§CT	285 h.	2,600	9,500	1:3	4A	10
GEO-33	10,000§ or 2,500*	22,500*CT	375 h.	2,000	3,650	1:1.5	2	3.2
GEO-87■	10,000§ or 2,500*	22,500*CT	375 h.	2,000	3,650	1:1.5	4B	10

Output

ALL UNITS HAVE HUMBUCKING CORE AND COIL CONSTRUCTION

Part No.	Impedance In Ohms		Primary Inductance	DC Resistance		Turns Ratio	Case Type	Wt. In Oz.
	Primary	Secondary		Primary	Secondary			
GEO-34	15,000§ or 3,750*	500§-125*	915 h.	2,600	80	5.5:1	3	5.25
GEO-35	15,000§ or 3,750*	500§-125* Hi Level	65 h.	2,600	80	5.5:1	3	5.25
GEO-36	20,000§ or 5,000*	16§-1+-8§-6.5-4*-2*-1-1.5§-.35*	1,750 h.	4,000	3.2	35.5:1	4	7.75
GEO-37	16,000§ or 4,000*	500§-333-233-200§-125*-67.5-50*-17*	1,600 h.	3,500	100	5.65:1	4	7.75
GEO-38	15,000§ or 4,000*	500§-333-233-200§-125*-67.5-50*-17* Hi Level	94 h.	3,500	100	5.65:1	4	8.25
GEO-39	20,000§ or 5,000*	60§-45-30§-24-15*-7.5*-5§-1.3*	1,750 h.	4,000	12.5	18.25:1	4	7.75
GEO-40	600*-150*	600*-150*	15 h.	36	52	1:1 or 2:1 or 1:2	4	7.75
GEO-41	18,000CT	500§-333-233-200§-125*-67.5§-50*-17*	280 h.	2,500	137	6:1	2	2.75
GEO-42	500 or 125	500 or 125	3 h.	70	70	1:1	2	2.75
GEO-43	500 or 125	16 or 4	3 h.	72	3.9	5.6:1	2	2.75
GEO-44	15,000§CT	16§-12-8§-6.5-4*-2*-1.5§-.35*	1,000 h.	5,000	4	30.5:1	2	3.2
GEO-45	15,000§CT	60§-45-30§-24-15*-7.5*-5§-1.3*	1,000 h.	5,000	18	15.8:1	2	3.2
GEO-46	15,000§CT	16§ or 4*	400 h.	3,800	7	30.6:1	1	1.5
GEO-47	15,000§CT	45§ or 11*	400 h.	3,800	11	18.25:1	1	1.5
GEO-48	20,000§ or 5,000*	50§-25-12.5-3	1,450 h.	4,000	20	20:1	2	3.2

§ Balanced, two windings
● Constructed with Single Coil
★ Constructed with 3 Interleaved Cases
■ Constructed with 5 Interleaved Cases
* Balanced, parallel windings

CONTINUED NEXT PAGE

Geophysical

Output

FOR AUTOMATIC VOLUME CONTROL CIRCUITS
ALL UNITS HAVE HUMBUCKING CORE AND COIL CONSTRUCTION

Part No.	Impedance In Ohms		Primary Inductance	DC Resistance		Turns Ratio	Case Type	Wt. In. Oz.
	Primary	Secondary		Primary	Secondary			
GEO-49	16,000§ or 4,000*	256,000§ or 64,000* and 150§ or 37.5*	500 h.	1,900	16,000 32	1:4 10.3:1	4	7.75
GEO-50	15,000§	240,000§CT and 140§ or 35*	300 h.	2,100	12,000 35	1:4 10.2:1	3	5.25
GEO-51	10,000§ or 2,500*	10,000§CT and 10,000§	150 h.	700	1,220 1,440	1:1:1	2	3.2
GEO-52	15,000§	240,000§CT and 140§ or 35*	200 h.	2,000	9,800 55	1:4 10.3:1	2	3.2
GEO-53	15,000§CT	240,000§CT and 35	200 h.	2,000	9,800 13.5	1:4 20.6:1	2	3.2
GEO-54	20,000§CT	240,000§CT and 24§CT	230 h.	2,400	10,000 5	1:3.46 28.8:1	2	3.2
GEO-55	15,000§CT	240,000§CT and 35*	230 h.	2,400	11,000 10	1:4 20.6:1	2	3.2

Reactor

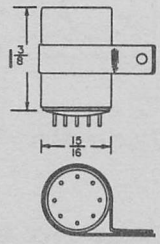
ALL UNITS HAVE HUMBUCKING CORE AND COIL CONSTRUCTION

Part No.	Inductance In Henrys	D.C. Resistance In Ohms	Low Percentage Taps	Mtg. Type	Wt. In Oz.
GEO-56	1,050§-800§-550§-400§-280§	13,000	None	3	5.5
GEO-57	1,000§-250*	10,000	4 — 2-1/2% 2 — 5%	4	8.25
GEO-58	500§-125*	6,000	4 — 3% 2 — 6%	4	8.25
GEO-59	50§ to 53	750	6 — 1/2 h. Taps From one end	3	5.5
GEO-60	1,050§-800§-550§-400§-280§-245§-153§-133§-80§-68§-45§	11,500	None	2A	3.4
GEO-61	1,000§-250*	13,000	4 — 2%	2A	3.4
GEO-62	500§-125*	10,500	4 — 2-1/2%	2A	3.4
GEO-63•	1,090-770-555-385-275	12,000	None	2	3.2
GEO-64	1,000	12,000	2 — 2%	1	1.5
GEO-65	500	12,000	2 — 2%	1	1.5
GEO-66	300	5,400	2 — 2%	1	1.5
GEO-67	100	11,950	2 — 2%	1	1.5

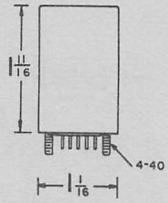
Low Frequency Transistor Transformers

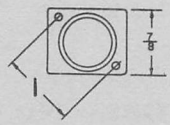
Part No.	Impedance In Ohms		Primary Inductance	DC Resistance		Turns Ratio	Freq. Resp. @ 5 MADC ±3DB	Case Type
	Primary	Secondary		Primary	Secondary			
GEO-78	1,000§ or 250*	125§ or 31*	60 h.	500	44	2.83:1	7 to 20,000	2
GEO-79■	1,000§ or 250*	125§ or 31*	60 h.	500	44	2.83:1	7 to 20,000	4B
GEO-80	1,000§ or 250*	1,000§ or 250*	65 h.	540	230	1:1	20 to 7,000	3A
GEO-81	1,000CT	2,500CT	20 h.	350	1,800	1:1.58	70 to 8,000	2

§ Balanced, two windings
* Balanced, parallel windings
• Single coil construction
■ Constructed with 5 Interleaved Cases



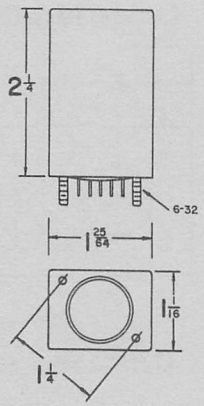
Case Type No. 1





Case Type No. 2

Case Type 2A same as Case 2 except 2A is 1 13/16" high



Case Type No. 3

For Case Type No. 4 See preceeding page

Ouncer Audio Units

These ouncer units are unsurpassed in compact quality transformers. Weighing only one ounce, these units are impregnated and sealed in 7/8 diameter aluminum cases. Mounting is provided by 2–56 threaded holes opposite the terminal board.

All units are supplied in RTV cases unless otherwise specified.
SEE NEXT PAGE FOR PLUG - IN OUNCERS.

RTV

DIA. — 7/8
H. — 1 3/16
MTG. — 11/16
WT. — 1 Oz.

Part No.	Application	Impedance In Ohms		Primary Unbalanced MADC	Output In MW	Freq. Resp. ±1 DB In Cycles
		Primary	Secondary			
25A29	Low Impedance to Grid	7.5/30	50,000	-	6.3	30-20,000
25A31	Mixing or Matching	50/200-250	50/200-250/ 500-600	-	6.3	30-20,000
25A27	Low Impedance to Grid	50/200-250/ 500-600	50,000	-	6.3	30-20,000
25A28	Low Impedance to PP Grids	50/200-250/ 500-600	50,000CT	-	6.3	30-20,000
25A49	Transistor Interstage	100/25*	40/10*	40	1W†	100-20,000
25A32	50:1 Low Impedance to Grid	200	500,000	-	6.3	50-5,000
25A33 *	Low Impedance to Grid	250CT§	50,000	-	6.3	30-20,000
25S06	Transistor to Voice Coil	400 to 500CT	3.2 to 4	20	1W†	100-20,000
25A48	Transistor Interstage	500/125*	50/12.5*	20	1W†	100-20,000
25A47	Transistor Interstage	500/125*	150/37.5*	20	1W†	100-20,000
25A46	Transistor Interstage	500/125*	500/125*	20	1W†	100-20,000
25A34	Transistor Input	600/125*	2,000/500*	-	30	50-20,000
25S04	Transistor to Line	1,500CT	500/125*	8	100	100-20,000
25S05	Transistor to Voice Coil	2,000 to 4,000CT	8 to 16	4	100	100-20,000
25A43	Transistor Interstage	10,000CT	500/125*	4	100	100-20,000
25A40	Transistor Interstage	10,000/2,500*	2,000/500*	4	100	100-20,000
25A41	Transistor Interstage	10,000/2,500*	4,000/1,000*	4	100	100-20,000
25A42	Transistor Interstage	10,000CT	10,000CT	4	100	100-20,000
25A39	10:1 Plate to Grid	10,000	1 MEG.	-	6.3	100-3,000
25S01	Plate to Line	15,000	50/200-250/ 500-600	-	6.3	30-20,000
25S02	Plate to Line	15,000	50/200-250/ 500-600	4	6.3	200-10,000
25A35	Plate to Line	15,000	60,000	-	6.3	30-20,000
25A36	Plate to Grid	15,000	60,000	4	6.3	200-10,000
25A37	Plate to PP Grid	15,000	95,000CT	-	6.3	30,20,000
25A38 ●	Plate to PP Grid	15,000	95,000CT	4	6.3	200-10,000
25A125	Transistor Interstage	24,000	600	5	1	350-3,500
25S03	PP Plates to Line	30,000CT	50/200-250/ 500-600	0	6.3	30-20,000
25A30	Crystal to Line	50,000	50/200-250/ 500-600	0	6.3	30-20,000
25A44	Transistor Interstage	50,000CT	500/125*	2	100	100-20,000
25A45	Interstage or Chopper	100,000CT	500/125*	1	100	100-20,000
25A124 ●	Transistor Interstage Autoformer	65,000	65,000	-	1	200-10,000
25C04	Split Inductor	Series Connected: 60 M Hy. @ 80 MADC, 4 Ohms Parallel Connected: 15 M Hy. @ 160 MADC, 1 Ohm				
25C05	Split Inductor	Series Connected: 1 Hy. @ 20 MADC, 60 Ohms Parallel Connected: .25 Hy. @ 40 MADC, 15 Ohms				
25C03	Inductor	1.6 Hy. @ 3 MADC or .8 Hy. @ 10 MADC, 25 Ohms				
25C02	Inductor	7 Hy. @ 3 MADC or 3.5 Hy. @ 10 MADC, 230 Ohms				
25C01	Inductor	300 Hy. @ 0 MADC or 50 Hy. @ 3 MADC, 6000 Ohms				

* Mounting type RAV with orientable mounting and 2 Hipermalloy shields.
DIA. — 1 1/16, H — 1 1/2, MTG. — 1 1/2, WT. — 3 Oz.

§ Balanced Primary CT to 1%. Can be used for 150, 200, 250, 500 or 600 ohm primary, keeping in mind that the impedance ratio of 200:1 is fixed.

● Size = 1 11/32 High, 31/32 Dia., Mounting Centers 21/32

† 1 Watt at 200 Cycles, .25 Watt at 100 Cycles

* Split Winding

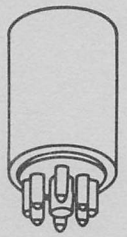
Steel Jacket Line

Plug-In Ouncer

These units are similar to the ouncer units listed on the previous page but are provided with an 8 Pin Plug-In type enclosure.

All units are sealed in bakelite housings except 25A114, 25A115 and 25A116 which have metal cases.

Part No.	Application	Impedance In Ohms		Primary Unbalanced MADC	Output In MW	Freq. Resp. ±1 DB In Cycles
		Primary	Secondary			
25A52	Low Impedance to Grid	7.5/30	50,000	-	6.3	30-20,000
25A54	Mixing or Matching	50/200-250	50/200-250/ 500-600	-	6.3	30-20,000
25A50	Low Impedance to Grid	50/200-250/ 500-600	50,000	-	6.3	30-20,000
25A51	Low Impedance to PP Grid	50/200-250/ 500-600	50,000CT	-	6.3	30-20,000
25A114	Line or Mike to Grid 9 PIN PLUG-IN,	200/50* STATIC SHIELDED,	36,000 70 DB MAGNETIC SHIELDED	-	10	50-15,000
25A115	Line or Mike to Grid 9 PIN PLUG-IN,	200/50* STATIC SHIELDED,	36,000 90 DB MAGNETIC SHIELDED	-	10	50-15,000
25A116	Line or Mike to Grid	200/50* STATIC SHIELDED,	80,000 70 DB MAGNETIC SHIELDED	-	10	50-20KC
25A57	10:1 Plate to Grid	10,000	1 MEG.	-	6.3	100-3,000
25S07	Plate to Line	15,000	50/200-250/ 500-600	-	6.3	30-20,000
25S08	Plate to Line	15,000	50/200-250/ 500-600	4	6.3	200-10,000
25A55	Plate to PP Grid	15,000	95,000CT	-	6.3	30-20,000
25A56	Plate to PP Grid	15,000	95,000CT	4	6.3	200-10,000
25S09	PP Plate to Line	30,000CT	50/200-250/ 500-600	0	6.3	30-20,000
25A53	Crystal to Line	50,000	50/200-250/ 500-600	-	6.3	30-20,000



PLUG-IN

H = 1 15/32
DIA. = 1 3/32
8 PIN - OCTAL PLUG

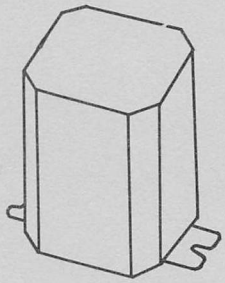
25A114
H = 2 1/2
1 1/4 DIA.

25A115
H = 2 3/4
1 3/4 DIA.

25A116
H = 1 3/4
1 3/8 DIA.

Converter-Photoflash

Part No.	Primary	Secondary	Mtg. Type	Mtg. Centers	Dimensions			Wt. Lbs.
					H	W	D	
25R56	115V @ 50/60 CPS or 4.5 Volts Battery Switched With 25R57 Inverter	400 Volts DC In Doubler Circuit Capacity 40 Watt Sec.	G-1	2 3/8	1 7/8	2 13/16	1 3/4	1
25R57	4.5 Volt DC Inverter (See Circuit)	Output to Feed 25R56 Step-up Transformer	RTV	11/16	1 3/16	7/8 Dia.		1 oz.
25R58	Trigger Transformer Discharge From .25 MFD @ 225 Volts DC	Output 6 KV Pulse	RTV	-	15/16	7/8 Dia.		.5 oz.



G-1

SEE PAGE 13 FOR THE COMPLETE LINE OF INVERTER AND CONVERTER TRANSFORMERS.
SEE PAGE 11 FOR COMPLETE CIRCUIT DIAGRAM.

Tinytran Miniature Audio

Average frequency response is within ±1 DB from 30 to 15,000 Cycles at 0 DBM operating level.
Encased in 7/8" square x 1 1/4" high aluminum cases, these units weigh only 1.3 ounces.
The case has two 2-56 threaded inserts for easy mounting.
Case Size: 7/8" x 7/8" x 1 1/4" High. Weight 1.3 Oz.

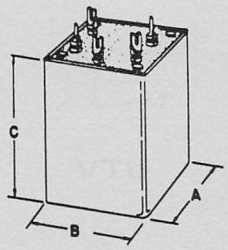
Part No.	Application	Primary Impedance	Secondary Impedance
25A117	Mike, Pickup or Line to Grid	50/200-250/500-600	50,000
25A118	Mike, Pickup or Line to PP Grids	50/200-250/500-600	50,000CT
25A119	Dynamic Mike To Single Grid	7.5/30	50,000
25A120	Single Plate to Single Grid	15,000 (No DC)	60,000

RTV

Steel Jacket Line

Ultra Compact Audios

These ULTRA Compact Audio units are small and light weight, ideally suited for high fidelity, portable or remote amplifiers.
Enclosed in a die-cast case provides top and bottom mounting as well as good inductive shielding.
Those units marked with (§) are steel enclosed with phenolic terminal boards and tapped corner inserts.
Hermetic sealed equivalents (RC-50) listed on Page 34.
Case Size: 1 1/2" x 1 1/2" x 2" High. Mounting Centers 1 5/32" x 1 5/32"



UTV with lugs and mounting Inserts

Part No.	Application	Primary Impedance	Unbalanced MADC	Secondary Impedance	Frequency ±2DB	Operating Level
25A19§	Dynamic Mike to Grids	30	0	50,000*	20-20,000	5MW
25S14	Transistor to Voice Coil	48CT	750 (Bal.)	16/4	40-20,000	5 Watts
25A60‡	Mixing or Matching	50/200-250/500-600†	0	50/200-250/500-600	30-30,000	30MW
25A22§	Mixing or Matching	50/125-150/200/250/ 333/500-600	0	50/125-150/200/250/ 333/500-600	30-20,000	5MW
25A16§	Low Impedance to Grid	50/125-150/200/250/ 333/500-600	0	50,000	20-20,000	5MW
25A58	Low Impedance to 1 or 2 Grids	50/125-150/200/250/ 333/500-600	0	50,000*	20-20,000	30MW
25A17‡§	Low Impedance to Grid	50/200/500	0	50,000	50-20,000	5MW
25A59‡	Low Impedance to 1 or 2 Grids	50/200/500	0	50,000 CT	20-20,000	3MW
25A18§	Low Impedance to 1 or 2 Grids	50/125-150/200/250/ 333/500-600	0	80,000*	20-20,000	5MW
25A71	Transistor Interstage	100/25*	40	40/10*	40-20,000	1 Watt
25S11	Transistor Interstage or Output	500CT	20	16/4*	40-20,000	1 Watt
25A70	Transistor Interstage	500/125*	20	50/12.5*	40-20,000	1 Watt
25A69	Transistor Interstage	500/125*	20	150/37.5*	40-20,000	1 Watt
25S10	Transistor Interstage or Output	500CT	20	500/125*	40-20,000	1 Watt
25A63	Mixing, Matching Line or Transistor To 2 Simultaneously Loaded Lines or Transistors	600/150*	0	2 Secondaries Each 600/150*	20-30,000	30MW
25A62‡	Line to Transistor	600/150*	0	2,000/500*	20-20,000	10MW
25A68	Transistor Interstage	10,000/2,500*	8	500/125*	30-20,000	1 Watt
25A64	Transistor Interstage	10,000/2,500*	8	2,000/500*	40-20,000	1 Watt
25S32§	Single Plate to Line	15,000	0	50/125-150/200/250/ 333/500-600	30-20,000	5MW
25S34§	Plate to Multiple Line	15,000	0	50/125-150/200/250/ 333/500-600	50-20,000	5MW
25S12	S or PP Plate to Line	15,000*	0	50/125-150/200/250/ 333/500-600	20-40,000	30MW
25S13	Plate to Line	15,000	8	50/125-150/200/250/ 333/500-600	40-20,000	30MW
25A20§	Plate to Grid	15,000	0	60,000	30-20,000	5MW
25A65	Plate to Grid	15,000	8	60,000	40-20,000	
25A21§	PP Plates to 1 or 2 Grids	15,000*	0	80,000*	30-20,000	5MW
25A66	Plate to 1 or 2 Grids	15,000	8	80,000*	40-20,000	30MW
25A33	PP Low Level Plates to Line	30,000CT	0	50/125-150/200/250/ 333/500-600	30-20,000	5MW
25A67	Transistor Interstage	25,000/6,250*	3	500/125*	30-20,000	1 Watt
25A61	Crystal or High Z to Line	100,000*	0	50/125-150/200-250/ 333/500-600	30-20,000	30MW
25C08	Filter Inductor	Series Connected: 240 M Hy. @ 200 MADC, 6 OHMS Parallel Connected: 60 M Hy. @ 400 MADC, 1.5 OHMS				
25C09	Filter Inductor	Series Connected: 4 Hy. @ 50 MADC, 100 OHMS Parallel Connected: 1 Hy. @ 100 MADC, 25 OHMS				
25C07	Filter Inductor	Series Connected: 60 Hy. @ 15 MADC, 2000 OHMS Parallel Connected: 15 Hy. @ 30 MADC, 500 OHMS				
25C06	Audio Inductor	Series Connected: 450 Hy. @ 0 MADC or 250 Hy. @ 5 MADC, 6000 OHMS Parallel Connected: 65 Hy. @ 10 MADC, 1500 OHMS				
25F26	Filament Transformer	115 V @ 60 Cycles to two 6.3 VCT @ .2 A Secondaries				

* Split Winding
‡ Multiple Alloy Shielded
† High Electrostatic Shielding

Steel Jacket Line

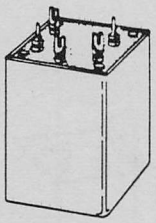
Compact-Hipermalloy

DIE-CAST CASE

Constructed with only the highest grade materials, including hipermalloy nickel cores and rugged high conductivity alloy die-cast cases. Mounting inserts have been provided so that the terminals may be mounted either up or down. Ideally suited for high fidelity portable or remote amplifiers.

Case Size: 1 15/16" x 2 3/8" x 3 1/8" High. Mounting Centers 1 3/8 x 1 13/16" Weight 2 Lbs.

Part No.	Application	Primary Impedance	Unbalanced MADC	Secondary Impedance	Frequency ±1 DB	Operating Level
25A76	Low Impedance Mixer to Grid	2.5/5.5/10/15/22/30/38/60	.5	60,000*	30-20,000	63MW
25A79‡	Three Isolated Lines or Pads to 1 or 2 Grids	30/50/200-250 Each Primary	.5	60,000*	30-20,000	63MW
27A77	Low Impedance, Mixing, Pickup or Multiple Line	50/125-150/200-250/† 333/500-600	.5	50/125-150/200-250/ 333/500-600	30-50,000	100MW
25A78‡	Low Impedance, Mixing, Pickup or Multiple Line	50/125-150/200-250/† 333/500-600	.5	50/125-150/200-250/ 333/500-600	30-50,000	63MW
25A72	Mike, Pickup or Line to 1 or 2 Grids	50/125-150/200-250/† 333/500-600	.5	60,000*	30-20,000	63MW
25A73‡	Mike, Pickup or Line to 1 or 2 Grids	50/125-150/200-250/† 333/500-600	.5	60,000*	30-20,000	40MW
25A75‡	Mike, Pickup or Line to 1 or 2 Grids	50/125-150/200-250/† 333/500-600	.5	80,000*	30-20,000	40MW
25A74	Mike, Pickup or Line to 1 or 2 Grids	50/125-150/200-250/† 333/500-600	.5	120,000*	30-20,000	63MW
25S19■	PP 6L6, 6050, 7355, 7581 to Voice Coil	3,000/5,000CT		1.2/2.5/5/7.5/10/ 15/20/30	10-50,000	18Watts
25S18■	PP 6L6, 6050, 7355, 7581 to Line	5,000/9,500CT		50/125-150/200-250/ 333/500-600	10,50,000	15Watts
25S20■	5881's (KT-66) in AB Feedback Circuit	6,600CT 43% Screen Taps		4/8/16	10-50,000	20Watts
25S15	S. Plate to Line	15,000*	0	50/125-150/200-250/ 333/500-600	30-40,000	125MW
25S17	Plate to Line	15,000*	8	50/125-150/200-250/ 333/500-600	30-20,000	160MW
25A81	Plate to Grid	15,000	0	60,000	30-20,000	100MW
25A80	Plate to 1 or 2 Grids	15,000*	0	95,000*	30-20,000	100MW
25A82	Plate to 1 or 2 Grids	15,000*	0	135,000*	30-20,000	100MW
25S16	PP Plates to Line	30,000CT	1	50/125-150/200-250/ 333/500-600	30-40,000	200MW
25A84	PP Plates to PP Grids	30,000*	0	68,000*	30-20,000	100MW
25A83■	PP Plates to PP Grids	30,000*	.25	80,000*	30-20,000	600MW



UTV

Power Transformers

Part No.	Application	Primary V. 50/60 Cycles	Plate Supply Volts	Plate Supply MADC	Filament Winding Volts	Filament Winding Amps.
25R44	Pre-Amp Power Supply Using 6X4, 6X5 Rectifiers	115	220-0-220	15	6.3CT 6.3CT	.6 1.2
25R45■	Pre-Amp or Tuner Power Supply Using 6X4 or 6X5 Rectifiers	115	275-0-275	35	6.3CT 6.3CT	.6 2.0

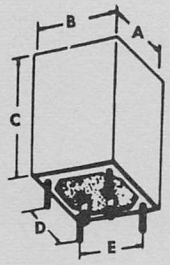
■ Case Dimensions:
2 13/16 x 3 9/16 x 3 1/2 High
2 x 2 3/4 Mounting Centers
Weight 5 Lbs.

‡ Multiple Alloy Shields

* Split Winding

† High Electrostatic Shielding

Steel Jacket Line



UTV

	A	B	C	D	E
UTV-3	2 5/16	2 1/16	3 1/8	1 11/16	1 7/16
UTV-4	2 3/4	2 3/8	3 13/16	2 1/8	1 3/4
UTV-5A	3 1/16	2 5/8	3 3/16	2 19/64	1 55/64
UTV-6	3 9/16	3 1/8	4 7/8	2 5/8	2 1/8
UTV-7A	3 15/16	3 3/8	4 5/16	3	2 7/16
UTV-8	4 5/16	3 11/16	5 9/16	3 5/16	2 11/16

Compact Audios

STEEL CASE

Similar to the compact Hipermalloy units listed on the preceeding page, but these units are encased in steel.

Stray magnetic fields are neutralized by hum-bucking coil and core construction.

Internal cases and special alloy shielding practically eliminate hum pickup.

Input-Interstage

Part No.	Application	Primary Impedance	Secondary Impedance	Operating Level #	Hum Reduction	Mtg. Type
25A15	Low Impedance Mixer, Mike, Pickup or Line to Line	50/125-150/ 200/250/333/ 500-600	50/125-150/ 200/250/333/ 500-600	17 DBM	-74 DB	UTV-5A
25A07	Low Impedance Mixer, Mike, Pickup or Line to Grid	50/150/250/600	50,000*	15 DBM	-70 DB	UTV-3
25A09	Low Impedance Mike or Line to Grid	50/125-150/ 200/250/ 333/500-600	50,000*	14 DBM	-92 DB	UTV-5A
25A08	Low Impedance Mike or Line to Grid	50/125-150/ 200/250/ 333/500-600	60,000*	15 DBM	-74 DB	UTV-5A
25A11	Low Impedance Mike or Line to Grid	50/125-150/ 200/250/ 333/500-600	80,000*	14 DBM	-92 DB	UTV-5A
25A10	Low Impedance Mike or Line to Grid	50/125-150/ 200/250/ 333/500-600	120,000*	15 DBM	-74 DB	UTV-5A
25A04	Line to Line	600/150CT	600/150CT	15 DBM	-70 DB	UTV-3
25A05	Line to Line	600/150*	600/150*	30 DBM	-90 DB	UTV-4
25A01	Line to 1 or 2 Grids	600/150*	50,000*	15 DBM	-70 DB	UTV-3
25A02	Line to 1 or 2 Grids	600/150*	50,000*	15 DBM	-90 DB	UTV-3
25A03	Line Bridging to Grids	8,000/6,000*	50,000*	15 DBM	-70 DB	UTV-3
25A12 §	Plate to PP Grids	15,000	95,000*	17 DBM	-50 DB	UTV-5A
25A13 §	Plate to PP Grids	15,000*	135,000*	14 DBM	-74 DB	UTV-5A
25A06 °	PP Plates to 1 or 2 Grids	20,000*	50,000*	15 DBM	-70 DB	UTV-3
25A14	PP Plates to 1 or 2 Grids	30,000*	80,000*	26 DBM	-50 DB	UTV-7A

Output

Part No.	Application	Primary Impedance	Secondary Impedance	Operating Level #	Output Tubes	Mtg. Type
25S29	PP Plates to Line or Voice Coil	3,000/2,500*	600/16/8* 150/4	+46 DBM (40 Watts)	3C33, 807's WE300, 6AR6	UTV-8
25S27	PP Plates to Line or Voice Coil	5,000/3,000*	600/16/8* 150/4	+42 DBM (15 Watts)	6B4G's or equivalent	UTV-6
25S26	PP Plates to Voice Coil	7,500CT	20/8	+43 DBM (20 Watts)	6L6's or equivalent	UTV-6
25S25	PP Plates to Line or Voice Coil	10,000*	600/16/8* 150/4	+37 DBM (5 Watts)	6V6's or equivalent	UTV-6
25S30	PP Plates to Line or Voice Coil	10,000CT	600/16/8	+40 DBM (10 Watts)	807's	UTV-6
25S31	PP Plates to Voice Coil HAS SCREEN TAPS	10,000CT	16/8/4	+43 DBM (20 Watts)	5881's 807's	UTV-6
25S23	Single Plate to Line	15,000 @ 10 MADC	600/150*	+15 DBM (31MW)	6C4's or equivalent	UTV-3
25S28	PP Low Level Plates to Line	20,000CT	600/150*	+15 DBM (31MW)	6C5 or equivalent	UTV-3
25S24	PP Plates to Line	20,000*	600/150*	+30 DBM (1 Watt)	6C5's or equivalent	UTV-4

* Split and Balanced Windings
§ Use shunt plate feed to keep DC out of primary winding
# 0 DBM reference level = 1 Milliwatt

Steel Jacket Line

TAJ Encased-Transistor And Tube Type

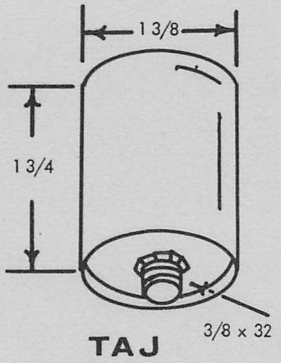
The performance characteristics of these units closely approximate those of more costly hermetically sealed units, but have an advantage of single hole mounting for rotating the complete unit for minimum hum pickup.

Units also have. . . . alloy shielding for 40-60 DB hum reduction (60-80DB in the 25A102 & 25A103). . . . frequency response of ± 3 DB from 30 to 15,000 cycles . . . . . input units are electrostatically and magnetically shielded . . . . . flexible color coded leads . . . . . circuit diagrams on each unit.

MOUNTING TYPE — TAJ WEIGHT — .35 lbs.

Part No.	Application	Impedance In Ohms		DC Resistance		Turns Ratio	Output In MW
		Primary	Secondary	Primary	Secondary		
25A106	Line or Transistor to Transistor	100CT* @ 30 MADC	40CT*	10	4	1.58:1	1 Watt
25A107	Line or Transistor to Line or Transistor	500CT* @ 15 MADC	100CT*	50	10	2.24:1	100
25S67	Line or Transistor to Voice Coil	500CT* @ 30 MADC	16/4*	50	1.5	5.6:1	100
25A105	Line or Transistor to Line or Transistor	500CT* @ 20 MADC	2,000CT*	50	200	1:2	100
25A112	Line to Transistor to Line	600/250/50	600/250/50	40	44	1:1	50
25A113	Bal. Line to Bal. Line	600CT*	600CT*	44	44	1:1	50
25A104	Line to Line or Transistor	600/300/200CT/ 110/50*	600CT*	62	70	1:1	1
25A101	Bal. Line or Mike to Single Grid	600CT*	66,000	34	3,380	1:10.5	1
25A102	Line or Mike to Grid	600/250/50	60,000	50	5,000	1:10	10
25A103	Bal. Line or Mike to Grid	600CT*	60,000	50	4,920	1:10	10
25A100	Line or Mike to Grid	600/250/50	86,500	33	3,450	1:12	1
25A108	Transistor to PP to Transistor or Line	1,000 @ 10 MADC	200CT*	302	138	2.2:1	200
25S74	1 or 2 Transistor to Bal. Line	2,000CT	600CT*	112	49	1.83:1	100
25S68	PP Plates to V.C.	10,000CT	4/8	1,000	.8	35.3:1	750
25A109	PP Plates or Transistor to Line or Transistor	10,000CT*	2,000CT*	1,000	200	2.24:1	100
25A110	Plate to 1 or 2 Grids	15,000	115,000CT	1,540	4,020	1:2.76	10
25A111	Plate to 1 or 2 Grids	15,000 @ 8 MADC	80,000CT	1,392	8,109	1:2.3	32
25S69	Plate to Line	15,000	600/250/50	1,020	46	5:1	100
25S70	Single or PP Plates to Balanced Line	15,000CT	600CT*	1,630	73	5:1	100
25S71	Plate to Line	15,000 @ 5 MADC	600/250/50	1,740	81	5:1	100
25S72	Single or PP Plates to Balanced Line	15,000CT @ 4 MADC	600CT*	1,740	81	5:1	100
25S73	PP Plates or Bridging to Line	25,000CT* @ 3 MADC	500CT*	2,500	50	7.1:1	200
25C10	Audio Choke	250 Hy. @ 5 MADC	OR 62.5 Hy. @ 10 MADC	7,500	-	-	-

* Split Winding

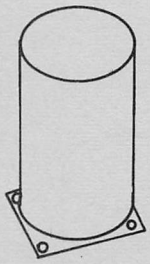


TAJ

Steel Jacket Line

RC Encased Transformers

These transformers incorporate rugged construction and conservative design to assure dependability under continuous operation. All units have been vacuum impregnated and potted with special compounds to provide the best possible protection. All 200 ohm windings are balanced and may be used for 150 to 250 ohms. Parallel feed low level interstage units with 50,000 ohm resistor and .25 MFD capacitor. Frequency Response ±1 1/2 DB from 40 to 10,000 Cycles.



RC

Case	Base Dim. (SQ.)	Height	Mtg. Dim. (SQ.)	Weight Lbs.
RC-37	1 3/8	1 5/8	1 1/8	.35
RC-50	1 5/8	2 1/4	1 5/16	1/2
RC-62	1 13/16	2 1/2	1 1/2	1
RC-75	2 3/16	2 7/8	1 13/16	1 1/2
RC-87	2 9/16	3 1/4	2 3/16	2 1/2
RC-100	3	3 3/4	2 3/8	3 1/2
RC-112	3 7/16	4 1/8	2 11/16	5
RC-125	3 3/4	4 1/2	3	6 1/2
RC-150	4 1/2	5 1/2	3 9/16	11
RC-152	5 1/8	5 1/2	4 1/8	15 1/2
RC-175	5 3/4	7	4 7/8	22

Input-Interstage-Mixing

Part No.	Application	Primary Impedance	Secondary Impedance	Operating Level #	Case Size	Wt. Lbs.
25A92	Mixing or Matching	50/200/500	50/200/500	+28 DBM	RC-50	.5
25A88	Line to Grid (Humbucking)	50/200/500	80,000	+30 DBM	RC-50	.5
25A90‡	Line to Grids (Humbucking)	50/200/500	80,000*	+28 DBM	RC-75	1.5
25A89	Line to Grids (Humbucking)	50/200/500	120,000*	+30 DBM	RC-50	.5
25A95	PP 45's, 2A3, Similar Tubes to Fixed Bias 2 or 4 6L6's	5,000CT	800*	10 Watts	RC-100	3.5
25A91	Plate & Low Imped. Mike or Line to 1 or 2 Grids	15,000/50/200	80,000*	+30 DBM	RC-62	1
25A85	Plate to Grid	15,000	135,000	+28 DBM	RC-50	.5
25A86	Plate to 1 or 2 Grids	15,000	135,000*	+30 DBM	RC-62	1
25A93	PP 6C5, 12AU7, Similar Triodes to AB 45's, 2A3's, 6L6's, etc.	30,000CT (0 MADC Unbalance)	25,000*	+35 DBM	RC-87	2.5
25A94	PP 6C5, 12AU7, Similar Triodes to Fixed Bias 6L6's	30,000CT	3,300*	+35 DBM	RC-87	2.5
25A87	PP Plates to PP Grids	30,000CT	80,000*	+32 DBM	RC-75	1.5

Varimatch Driver Transformers

Part No.	Application	Typical Output Tubes	Turns Ratio Pri. to 1/2 Sec.	Output In Watts	Case Size	Wt. Lbs.
25D59	All Single Tubes Like: 6C5,6C4,12AU7,2A3,5814A	2A3,6L6	2.8:1 3.1:1	5	RC-87	2.5
25D60	PP Tubes Like: 2A3, 6L6	841,801A 800,838,805	2:1 3:1	20	RC-112	5
25D61	50/200/500 Ohm Line	805,838,ZB120, 100TH,800,5ST	1:1 1.4:1	20	RC-112	5

Push-Pull Output Transformers

Part No.	Typical Output Tubes	Primary Impedance	Secondary Impedance	Operating Level #	Case Size	Wt. Lbs.
25S46	6AS7G,6L6,6081,7581	3,000/5,000CT	1.5/3/5/8/16/200/500	20 Watts	RC-100	3.5
25S51	650's In AB Ultra Linear Circuit	3,300CT 43% SCREEN TAPS	4/8/16/70V	50 Watts	RC-150	11
25S50	EL-34 In AB Ultra Linear Circuit	5,000CT 43% SCREEN TAPS	4/8/16/70V	25 Watts	RC-125	6.5
25S47	6L6,5881,6DZ7	6,000/10,000CT	1.5/3.5/8/16/200/500	20 Watts	RC-100	3.5
25S45	6V6,6AQ5,6BQ5,7189A	8,000CT	1.5/3/5/8/16/200/500	20 Watts	RC-100	3.5
25S49	6L6(AB1),5881	9,000CT	1.5/3/5/8/16/200/500	30 Watts	RC-125	6.5
25S48	7B5,6AK6,6K6	14,000/20,000CT	1.5/3/5/8/16/200/500	20 Watts	RC-100	3.5
25S21	Triode Plate to Line	15,000 @ 8 MADC	50/200/500	+30 DBM (1 Watt)	RC-50	.5
25S22	Triode Plate to Line (0 MADC Unbalanced Pri.)	30,000CT	50/200/500	+32 DBM (1.5 Watts)	RC-50	.5

Varimatch Outputs For P.A.

Part No.	Typical Output Tubes	Primary Impedance	Secondary Impedance	Output In Watts	Case Size	Wt. Lbs.
25S52	6V6,6AQ5,6BQ5,6DZ7	3,000 5,000	1.5/3/5/8/16/50/200/500	12	RC-100	.5
25S53	6L6,807,5881,6DZ7,7189	6,000 8,000		30	RC-125	6.5
25S54	300B,6L6,807,5881,1625	10,000 14,000		60	RC-150	11

0 DBM reference level = 1 Milliwatt * Split Winding ‡ Multiple Alloy Shielded for Low Hum Pickup

CONTINUED NEXT PAGE

RC Encased Transformers continued

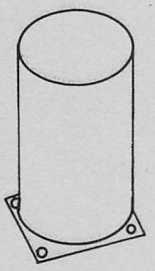
Varimatch Line to Voice Coil

These Varimatch Line to Voice Coils will match any Voice Coil or set of Voice Coils to a 500 Ohm Line.
As many as 50 Voice Coil Impedances can be obtained as follows:
.2/.4/.5/.62/1/1.25/1.5/2/2.5/3/3.3/3.8/4/4.5/5/5.5/6/
6.25/6.6/7/7.5/8/9/10/11/12/14/15/16/18/20/25/28/30/31/
40/47/50/63/69/75 Ohms

Part No.	Application	Primary Impedance	Secondary Impedance	Output In Watts	Case Size	Wt. Lbs.
25S57	Line to Voice Coil	500	.2 to 75	15	RC-87	2.5
25S58	Line to Voice Coil	500	.2 to 75	40	RC-125	6.5
25S59	Line to Voice Coil	500	.2 to 75	75	RC-150	11

Filter Chokes

Part No.	Inductance In Henrys	MADC	DC Resistance In Ohms	Test Volts RMS	Case Size	Wt. Lbs.
25C63	250	15	5,000	1,750	RC-87	2.5
25C64	75	50	2,200	1,750	RC-87	2.5
25C62	30	100	400	1,750	RC-100	3.5
25C65	12	150	110	2,500	RC-125	6.5
25C61	10	200	110	1,750	RC-112	5
25C66	12	250	100	3,000	RC-150	11
25C67	10	350	90	5,000	RC-152	15.5
25C68	10	500	52	7,000	RC-175	22



RC

Swinging Chokes

Part No.	Inductance In Henrys	MADC	DC Resistance In Ohms	Test Volts RMS	Case Size	Wt. Lbs.
25C69	25/5	15/150	110	2,500	RC-125	6.5
25C70	25/5	25/250	100	3,000	RC-150	11
25C71	25/5	35/350	90	5,000	RC-152	15.5
25C72	25/5	50/500	52	7,000	RC-175	22
25C73	† 100/10 MH * 25/2.5 MH	250/2.5 A 500/5 A	.6 .15	1,500	RC-87	2.5

Case	Base Dim. (SQ.)	Height	Mtg. Dim. (SQ.)	Weight Lbs.
RC-37	1 3/8	1 5/8	1 1/8	.35
RC-50	1 5/8	2 1/4	1 5/16	1/2
RC-62	1 13/16	2 1/2	1 1/2	1
RC-75	2 3/16	2 7/8	1 13/16	1 1/2
RC-87	2 9/16	3 1/4	2 3/16	2 1/2
RC-100	3	3 3/4	2 3/8	3 1/2
RC-112	3 7/16	4 1/8	2 11/16	5
RC-125	3 3/4	4 1/2	3	6 1/2
RC-150	4 1/2	5 1/2	3 9/16	11
RC-152	5 1/8	5 1/2	4 1/8	15 1/2
RC-175	5 3/4	7	4 7/8	22

Filament/Transistor Supply Transformers

Part No.	Primary Voltage §	Secondary Volts	Secondary Amps.	Test Volts RMS	Case Size	Wt. Lbs.
25F79	105/115/220/230	2.5CT	10	6,000	RC-112	5
25F80	105/115/210/220/230	2.5CT	10	11,000	RC-125	6.5
25F81	105/115/210/220/230	5.0CT	25	11,000	RC-150	11
25F77	115	6.3CT	1.2	2,500	RC-62	1
25F78	105/115/210/220/230	6.3CT	4	2,000	RC-75	1.5
25F82	105/115/210/220/230	7.5/6.3CT	10	4,000	RC-125	6.5
25F83	105/115/210/220/230	10CT	10	4,000	RC-150	11
25F84	105/115/210/220/230	14/12/11CT	10	4,000	RC-150	11
25F85	105/115/210/220/230	14/12/11CT 14/12/11CT	10 10	4,000 4,000	RC-152	15.5

§ All units designed for 50/60 Cycle operation.
Units with 220 Volt Primary windings may be used in 25 to 43 Cycle application if the 220 Volt tap is used on 110 Volt Lines. The secondary voltage is, of course, simultaneously reduced to half.

† Split Winding In Series

* Split Winding In Parallel

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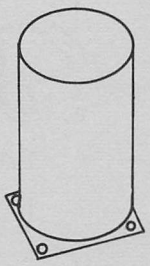
Steel Jacket Line

RC Encased Transformers continued



RC

Case	Base Dim. (SQ.)	Height	Mtg. Dim. (SQ.)	Weight Lbs.
RC-37	1 3/8	1 5/8	1 1/8	.35
RC-50	1 5/8	2 1/4	1 5/16	1/2
RC-62	1 13/16	2 1/2	1 1/2	1
RC-75	2 3/16	2 7/8	1 13/16	1 1/2
RC-87	2 9/16	3 1/4	2 3/16	2 1/2
RC-100	3	3 3/4	2 3/8	3 1/2
RC-112	3 7/16	4 1/8	2 11/16	5
RC-125	3 3/4	4 1/2	3	6 1/2
RC-150	4 1/2	5 1/2	3 9/16	11
RC-152	5 1/8	5 1/2	4 1/8	15 1/2
RC-175	5 3/4	7	4 7/8	22

Power Transformers

PRIMARY 115 VOLT 50/60 CYCLES

Part No.	Plate Supply Volts	Plate Supply MADC‡	Rectifier Filaments Volts	Rectifier Filaments Amps.	Other Filaments Volts	Other Filaments Amps	Case Size	Wt. Lbs.
25R50	TAPPED FOR ANY DC VOLTAGE FROM 15 TO 100 VOLTS WITHIN 6%. CURRENT RATING — 250 MADC						RC-125	6.5
25R51	TAPPED FOR ANY DC VOLTAGE FROM 75 TO 400 VOLTS WITHIN 6%. CURRENT RATING — 250 MADC						RC-152	15.5
25R46	435-365-0-365-435	125	5	3	6.3CT	3	RC-150	11
	125-0-125	25	5	2	2.5CT	5		
25R47	500-0-500	250	5	3	6.3CT	4	RC-152	15.5
	80-0-80	100	5	2	6.3CT/2.5CT	3		
25R48	600-525-0-525-600	250	5	3	6.3CT	3	RC-152	15.5
					7.5CT Tapped at 6.3CT	3		
						4		

Plate Transformers

Part No.	Primary Voltage §	Plate Voltage	DC Output Voltage	DC Output MADC	Case Size	Wt. Lbs.
25P66	105/115/220/230	580-530-300-0-300-530-580	475/425/250	420	RC-152	15.5
25P93 ★	105/115/220/230	580-530-300-0-300-530-580	475/425/250	420	RC-152	15.5
25P65	105/115/220/230	625-515-0-515-625	500/400	200	RC-150	11
25P92 ★	105/115/220/230	625-515-0-515-625	500/400	200	RC-150	11
25P67	105/115/220/230	950-750-0-750-950	760/610	360	RC-175	22
25P94 ★	105/115/220/230	950-750-0-750-950	760/610	360	RC-175	22
25P68	105/115/220/230	1,500-1,235-400-0-400-1,235-1,500	1,250/1,000	260	RC-175	22
			300	175		
25P95 ★	105/115/220/230	1,500-1,235-400-0-400-1,235-1,500	1,250/1,000	260	RC-175	22
			300	175		

Low Voltage Rectifier Transformers

Part No.	Primary Voltage	Secondary Volts	Secondary Amps.	DC Output Parallel Connected	DC Output Series Connected	Case Size	Wt. Lbs.
25V06	115	17/21.5	1.5	14/17.5 @ 3A*	28/35 @ 1.5A*	RC-112	5
	50/60 Cycles	17/21.5	1.5	18.5/25 @ 2A†	43/56 @ 1A†		
25V07	115	34/43	4.5	28/35 @ 9A*	56/70 @ 4.5A*	RC-175	22
	50/60 Cycles	34/43	4.5	43/56 @ 6A†	85/110 @ 3A†		

Line Adjusting Autoformers

50/60 CYCLES

Part No.	Output In Watts	Primary Voltage	Secondary Voltage	Case Size	Wt. Lbs.
25V01	150	25/55/75/ 95/100/105/ 110/115/120/ 125/130	0 To 130 In 5 Volt Steps	RC-112	5
25V02	250			RC-125	6.5
25V03	500			RC-150	11
25V04	1,000			RC-152	15.5
25V05	2,000			RC-175	22

§ All units designed for 50/60 Cycle operation. Units may be used in 25 to 43 cycle applications if the 220 Volt tap is used on 110 Volt line. The secondary voltage is, of course, simultaneously reduced to half.

★ These units have been designed to be used both in full wave center tap and full wave bridge applications, center tap may be disconnected from ground.

‡ MADC is for Choke Input Filter. Reduce to 70% for condenser Input Filters.

† Capacitor Input Filter

* Choke Input Filter

Steel Jacket Line

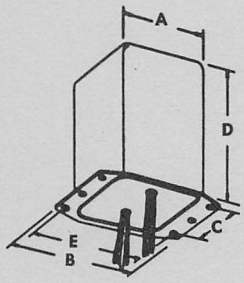
Audio Transformers
Covering The Full Frequency Range

Input-Interstage

Part No.	Application	±1.5 DB FROM 30 TO 20,000 CYCLES Impedance Primary	Impedance Secondary	Turns Ratio	Case Size	Wt. Lbs.
25A123	Dynamic Mike or Pickup to Grid	30/15/8/4	106,000	1:60	TAV-3	1.7
25A121	Mike, Pickup or Line to Grid	500/333/200/125/50	89,000	1:13.3	TAV-3	1.4
25A122	S. Plate to PP Grid	7,000 to 15,000	63,000 to 135,000	1:3	TAV-3	1.7

Output Transformers

Part No.	Typical Output Tubes	Impedance Primary	Impedance Secondary	Output In Watts	Case Size	Wt. Lbs.
25S81	Transistor	24CT @ 200 MADC	16/4 (SPLIT)	10	TAV-7	6.25
25S80	KT-88 (Ultra Linear)	4,000CT 25% SCREEN TAPS @ 100 MADC	4/8/16	65	TTV-8	10
25S76	6550, KT-88, EL-34 HAS CATHODE FEEDBACK WINDING AND SCREEN TAPS	4,300CT	8/16	65	TAV-8	11.75
25S77	6B4, 6L6	5,000CT @ 75 MADC	4/8/16	18	TAV-3	1.7
25S75	6550's, KT-88 HAS CATHODE FEEDBACK WINDING AND SCREEN TAPS	5,000CT	8/16/70	100	TAV-9	21
25S78	6F6, 6V6, 6K6	10,000CT	2,000 and 4/8/16	10	TAV-3	1.3



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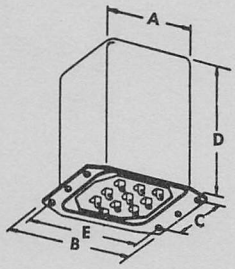


TTV

TAV
TTV

	A	B	C	D	E
-1	1 1/2	2 3/8	-	1 3/4	2
-3	2 1/4	2 11/16	1 1/2	2 7/8	2 3/8
-4	2 1/2	3	1 3/4	3 5/16	2 11/16
-5	2 7/8	3 1/2	2	3 9/16	3 1/8
-6	3 1/4	4	2 1/4	4	3 1/2
-7	3 11/16	4 7/16	2 3/4	4 5/16	3 7/8
-8	4 9/16	5 1/4	2 1/2	5 5/16	4 3/4
-9	5 5/16	5 7/8	3 1/2	6 1/16	5 3/8
-10	6 1/8	6 1/2	4 1/4	7 1/16	6
-11	7 1/16	7 7/8	5	8	7

Audio Transformers
Covering The Public
Address Frequency Range 50 To 10,000 Cycles

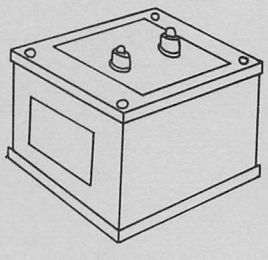
Driver Transformers

Part No.	Typical Driver Tubes	Primary Impedance	MADC	Turns Ratio Pri. 1/2 Sec.	Case Size	Wt. Lbs.
25D49 25D55	P-P 6N7's, 6A6's 6J5's, 6C4's, etc.	20,000 Ohms CT	10	3:1	TAV-4 TTV-4	2.25
25D50 25D56	P-P 6N7's, 6A6's 6J5's, 6C4's, etc.	20,000 Ohms CT	25	3:1	TAV-4 TTV-4	2.25
25D51 25D57	P-P 6B4G's, 45's 2A3's, 6L6's, etc.	5,000/10,000 Ohms CT	100	5:1	TAV-6 TTV-6	4.5

Output Transformers

Part No.	Typical Output Tubes	Class	Impedance Primary-Secondary	Primary MADC	Power Level	Case Size	Wt. Lbs.
25S79	Line Matching to Voice Coil		Pri: 4 Ohms Sec: .01/.05/.1/.25/.5/1		50 Watts	KTV	6
25S35 25S40	P-P 6B4G's, 6L6's	A1 AB	Pri: 5,000 Ohms CT Sec: 600/150/ *16/8/4 Ohms	120MA	20 Watts	TAV-7 TTV-7	6.5
25S36 25S41	P-P 6V6's, 6F6's P-P 6K6's	AB AB1	Pri: 10,000 Ohms CT Sec: 600/150/ *16/8/4 Ohms	200MA	15 Watts	TAV-6 TTV-6	5
25S37 25S42	P-P 6L6's P-P Parallel 6V6's	B AB2†	Pri: 6,000 Ohms CT Sec: 600/150/ *16/8/4 Ohms	250MA	30 Watts	TAV-8 TTV-8	9

* Has tertiary winding to provide 10% inverse feedback.
† For low distortion, use fixed bias.



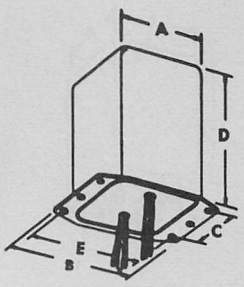
KTV

WIDTH	4 7/16
LENGTH	3 5/16
HEIGHT	4 7/8
MTG. CENTERS	2 5/8 x 3 1/8

Steel Jacket Line

Communication Range Audio Transformers
Frequency Range 200 To 3,500 Cycles

These components are designed for use in aircraft, police, railroad, amateur, and similar receiving and transmitting equipment. Frequency response is within 1 decibel from 200 to 3,500 cycles. These units, except for the 25M77, are completely encased in steel, and are ideal for outdoor fixed or mobile use.



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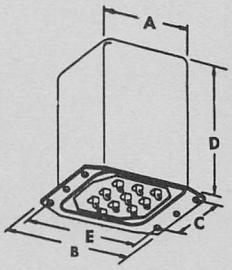


TTV

TYV

(TYV SAME AS TTV BUT WITH BUSHINGS)

	TAV TTV 4	TAV TTV 5	TYV 10
A	2 1/2	2 7/8	6 1/8
B	3	3 1/2	6 1/2
C	1 3/4	2	4 1/4
D	3 5/16	3 9/16	7 1/16
E	2 11/16	3 1/8	6

Input

Part No.	Application	Impedances Primary-Secondary	Case Type	Wt. Lbs.
25A23 25A25	Low Level Line to Single or P-P Grids	Pri: 600, 150 Ohms CT *Sec: 100,000 Ohms CT	TAV-1 TTV-1	.75
25A24 25A26	Low Level SB or DB Microphone to Single or P-P Grids	Pri: 125/50 Ohms, 80 MA Sec: 125,000 Ohms CT	TAV-1 TTV-1	.75

Driver

Part No.	Application	Primary Impedance	Primary MADC	Turns Ratio Pri: 1/2 Sec.	Case Type	Wt. Lbs.
25D52 25D58	P-P 2A3's, 6B4G's 807's to P-P Grids	5,000 Ohms CT	100 MA	3:1	TAV-5 TTV-5	3 1/2

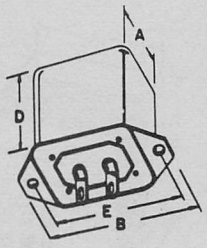
Modulation

Part No.	Typical Mod. Tubes	Impedances Primary-Secondary	MADC Primary	MADC Secondary	Power Level	Case Type	Wt. Lbs.
25M76	203A's, 805's 75TL's, 203Z's	Pri: 9,000/6,700 Ohms CT Sec: 8,000/6,000/4,000 Ohms	350	350	250-350 Watts	TTV-10	22
25M77	810's, 822's 4-250A's, etc.	Pri: 18,000/12,000 Ohms CT Sec: 6,250 Ohms	500	500	500-700 Watts	PUH	43

Output

Part No.	Typical Output Tubes	Class	Impedances Primary-Secondary	MADC Primary	Power Level	Case Type	Wt. Lbs.
25S38 25S43	Sgl. 6F6, 6V6 25A6, etc.	A	Pri: 5,000 Ohms Sec: 600/150/ 16/8/4 Ohms	55 MA	5 Watts	TAV-4 TTV-4	2 1/4
25S39 25S44	Sgl. 6L6, 6V6 6N6, 6K6, 7B5	A	Pri: 8,000 Ohms Sec: 600/150/ 16/8/4 Ohms	55 MA	5 Watts	TAV-4 TTV-4	2 1/4

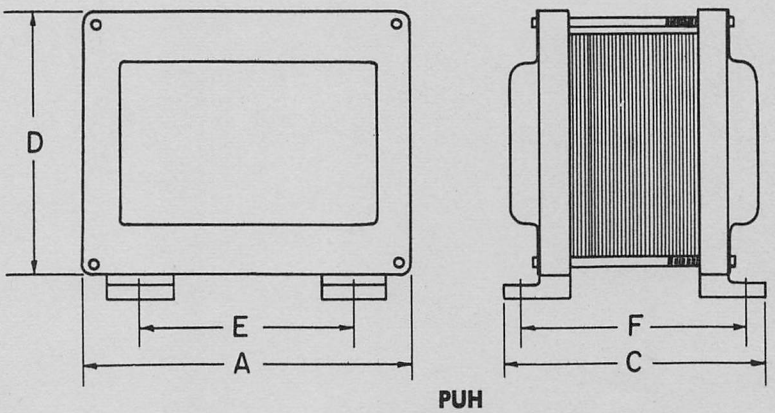
* Split and balanced winding.



TAV-1

TTV-1

A	B	D	E
1 1/2	2 3/8	1 3/4	2



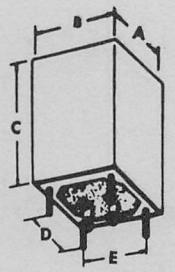
PUH

Communication And Industrial Large Capacity Full Frequency Range Transformers

Designed primarily for use by broadcast stations. These matched sets of driver and modulation transformers have a frequency response within 1 decibel from 30 to 15,000 cycles per second. Distortion is negligible. The specially designed modulation reactors shown below match the drivers and modulation transformers, and all are conservatively designed and quality constructed to provide the optimum in operation.

Driver

Part No.	In :	Recommended Application Tubes	Ratio Pri: 1/2 Sec.	Mtg. Type	Wt. Lbs.
25D53	250 Watt Transmitter	From two 2A3's, 6B4's, or similar P-P Plates to Class B 838's, 805's, 203A's	3.5:1	UTV-7	6 1/2
25D54	1 KW Transmitter	From four 2A3's, 6B4's, or similar P-P Plates to two 833A's or similar P-P Grids	3:1	TSV-9	12 1/4

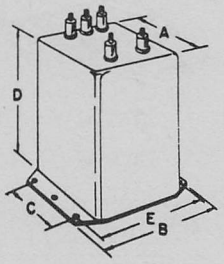


UTV

A	3 15/16
B	3 3/8
C	5 1/4
D	3
E	2 7/16

Modulation

Part No.	Recommended Application In :	With :	Mod. Tubes	Impedances (Pri. Plate to Plate)	Mtg. Type	Wt. Lbs.
25M78	250 Watt Transmitter	Driver Transformer 25D53	203-A, 838, 805, etc.	Pri: 7,500 Ohms CT Sec: 5,000 Ohms	TSV-10	25
25M79	500 Watt Transmitter	Class C Amplifier	833-A, etc.	Pri: 11,000 Ohms CT Sec: 5,500 Ohms	PUV	105
25M80	1 KW Transmitter	Driver Transformer 25D54	833-A, etc.	Pri: 9,000 Ohms CT Sec: 7,500 Ohms	PUV-5	175

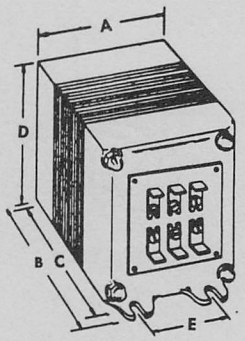


TSV

	TSV-9	TSV-10	TSV-11
A	5 5/16	6 1/8	7 1/16
B	5 7/8	6 1/2	7 7/8
C	3 1/2	4 1/4	5
D	6 1/16	7 1/16	8
E	5 3/8	6	7

Choke Modulation

Part No.	Recommended Application In :	With :	Inductance Rating Henrys	MADC	Mtg. Type	Wt. Lbs.
25C40	250 Watt Transmitter	Modulation Transformer 25M78	65	250	TSV-11	41
25C41	500 Watt Transmitter	Modulation Transformer 25M79	50	400	PUV	73
25C42	1 KW Transmitter	Modulation Transformer 25M80	100	500	PUV-5	165



PUV

	PUV-4	PUV-4A	PUV-5
A	7 9/16	7 9/16	9 1/16
B	11 1/2	8 1/2	14 7/8
C	10 13/16	7 13/16	14
D	9 5/8	9 5/8	12 5/8
E	4 9/32	4 9/32	5 17/32

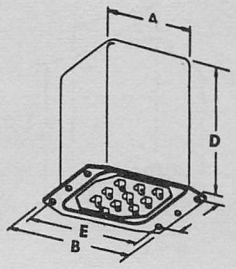
Plate Transformers And Matching Reactors

Plate

PRIMARY 115/230 VOLTS, 50/60 CYCLES

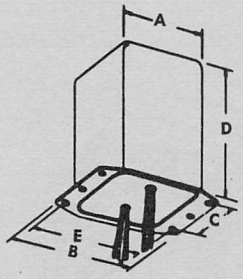
These plate transformers have a multitude of applications, including induction heating, electronic control equipment, commercial and amateur transmission. They are conservatively designed and rated, and are amply insulated to provide the ultimate in reliability. Temperature rise is 40 to 50°C at full load, CCS duty. Under ICAS conditions, the duty cycle is 15 minutes on, and 15 minutes off, with the 40 to 50°C temperature rise.

Part No.	Secondary AC Load Volts	DC Volts After Filter	M A D C CCS	M A D C ICAS	Mtg. Type	Wt. Lbs.
25P96	380-0-380	250	1,000	1,300	PUV	16
25P97■	600-0-600	450	350	475	PUV	15
25P82	675-575-0-575-675	500/400	250	325	TTV-8	12
25P83	900-735-0-735-900	750/600	250	325	TTV-8	13.5
25P84	1,150-870-0-870-1,150	1,000/750	250	350	PUH-1	37
25P85	1,425-600-0-600-1,425	1,250/450	150/200	200/260	TTV-9	26
25P86	1,710-1,430-0-1,430-1,710	1,500/1,250	300	425	PUH-4	43
25P87	2,820-2,260-0-2,260-2,820	2,500/2,000	300	425	PUH-5	71
25P88	2,900-2,320-0-2,320-2,900	2,600/2,100	500	700	PUV	95
25P89	3,450-2,850-0-2,850-3,450	3,000/2,500	500	700	PUH-6	137
25P90	4,600-4,060-3,400-0-3,400-4,060-4,600	4,000/3,500/3,000	600	800	PUH-8	150



TTV TYV

TYV SAME AS TTV
BUT WITH BUSHINGS



TAV

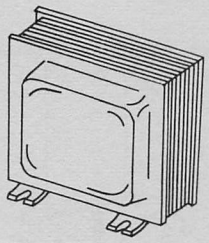
TAV TTV TYV	A	B	C	D	E
-1	1 1/2	2 3/8	-	1 3/4	2
-3	2 1/4	2 11/16	1 1/2	2 7/8	2 3/8
-4	2 1/2	3	1 3/4	3 5/16	2 11/16
-5	2 7/8	3 1/2	2	3 9/16	3 1/8
-6	3 1/4	4	2 1/4	4	3 1/2
-7	3 11/16	4 7/16	2 3/4	4 5/16	3 7/8
-8	4 9/16	5 1/4	2 1/2	5 5/16	4 3/4
-9	5 5/16	5 7/8	3 1/2	6 1/16	5 3/8
-10	6 1/8	6 1/2	4 1/4	7 1/16	6
-11	7 1/16	7 7/8	5	8	7

PUV (SEE PAGE 70 FOR PICTURE)

	A	B	C	D	E
25P88	7 9/16	10 1/2	9 13/16	9 5/8	4 9/32
25P96	4 1/16	7 1/2	7	5 3/16	2 3/16
25P97	4 1/16	7	6 1/2	5 3/16	2 3/16

Chokes

Part No.	Inductance Rating Henrys	Inductance Rating MADC	Resistance In Ohms	Test Volts RMS	Mtg. Type	Wt. Lbs.
25C25	15	40	475	2,500	TAV-3	1.5
25C49					TTV-3	
25C26	10	55	230	2,500	TAV-3	1.75
25C50					TTV-3	
25C27	15	55	420	2,500	TAV-3	2
25C51					TTV-3	
25C28	10	85	175	2,500	TAV-4	2.5
25C52					TTV-4	
25C29	15	85	285	2,500	TAV-4	2.75
25C53					TTV-4	
25C30	8	105	100	2,500	TAV-5	3.75
25C54					TTV-5	
25C31	12	105	170	2,500	TAV-5	4
25C55					TTV-5	
25C92	7	150	170	1,500	TAV-4	2.3
25C32	8	150	100	2,500	TAV-6	5.25
25C56					TTV-6	
25C33	12	150	150	2,500	TAV-6	5.5
25C57					TTV-6	
25C34	8	200	85	2,500	TAV-7	7
25C58					TTV-7	
25C35	12	200	140	2,500	TAV-7	7
25C59					TTV-7	
25C36	8	250	90	2,500	TAV-8	10.5
25C60					TTV-8	
25C48	6	300	35	7,500	TYV-9	16.5
25C37	8	300	60	3,500	TAV-8	12.5
25C43					TTV-8	
25C47	10	300	40	7,500	TYV-10	22
25C46	6	500	35	9,000	PUH-1	25
25C45	10	500	40	9,000	PUH-3	35
25C44	6	700	35	10,000	PUH-2	35



PUH

	A	C	D	E	F
PUH-1	7 1/2	6 5/16	7	4 3/4	5 1/2
PUH-2	7 1/2	6 7/8	7	4 3/4	5 5/16
PUH-3	7 1/2	7 1/8	7	4 3/4	6 1/4
PUH-4	7 1/2	7 1/2	7	4 3/4	6 11/16
PUH-5	8 7/8	8 1/4	8 1/2	5 1/2	6
PUH-6	11 1/2	10 1/4	10 1/2	7 1/2	8 1/4
PUH-7	11 1/2	13 13/16	10 1/2	7 1/2	11 13/16
PUH-8	13 13/16	10 3/8	12 3/4	9	8 7/8

These High Q Chokes were primarily designed for use in Dynamic Noise Suppressor Circuits, but these components may also be used effectively in any tuned circuit requiring the given inductances. Rated inductances are accurate within 5%, with up to 15 MADC Minimum Q is 20.

Part No.	Inductance	Mtg. Type	Wt. Lbs.
25C38	.8 Henrys	TTV-1	.5
25C39	2.4 Henrys	TTV-1	.5

■ Primary 117 Volts, 50/60 Cycles

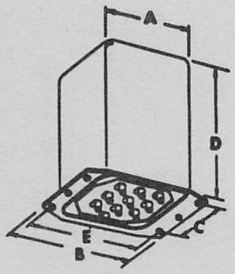
Filament

Filament

PRIMARY 115-230 VOLTS 50/60 CYCLES

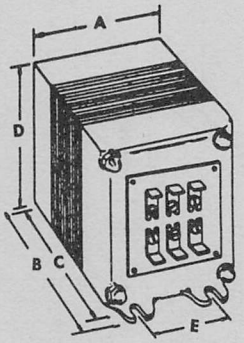
For heating a variety popular receiving and transmitting tubes. Solder-lug terminals are used where secondaries are rated under 6 Amps., screw type terminals are used where secondaries are rated over 6 Amps. Numbers 25F57, 25F58, 25F59, 25F62 and 25F64 are designed for use with high voltage rectifier supply. On these units secondary terminals are insulated with ceramic bushings.

Part No.	Volts	Amps.	Test Volts RMS	Case Size	Wt. Lbs.
25F94*	2.5CT	2.5	2,500	TAV-3	1.5
25F56	2.5CT	2.5	3,500	TTV-4	2
25F57	2.5CT	10	5,000	TTV-5	3
25F58	2.5CT	10	9,000	TTV-6	4
25F59	2.5CT	15	9,000	TTV-7	6
25F60	5.0CT	4	2,500	TTV-4	2.25
25F39■	5.0CT	7.5	15,000	PUV	9
25F61	5.0CT	10	2,500	TTV-5	3.5
25F62	5.0CT	10	10,000	TTV-7	6
25F63	5.0CT	20	2,500	TTV-7	6.5
25F64	5.0CT	20	10,000	TTV-8	13
25F65	5.0CT	30	2,500	TTV-8	10.5
25F66	5.0CT	30	2,500	TSV-8	10.5
25F19●	6.3	.6	3,500	TAV-3	1.5
25F67	6.3CT	1.5	2,500	TTV-3	1
25F68	6.3CT	3	2,500	TTV-4	2
25F69	6.3CT	5.5	2,500	TTV-5	3
25F70	6.3CT	10	2,500	TTV-6	5
25F42	6.3	80	2,500	PUV	17
25F71	7.5CT	5.0	2,500	TTV-5	3.25
25F72	7.5CT	12	2,500	TTV-7	6.5
25F18	7.5CT	25	2,500	TTV-8	10.5
25F17	7.75CT	51	2,500	TSV-10	29
25F73	10CT	4.0	2,500	TTV-5	3.25
25F74	10CT	6.5	2,500	TTV-6	5
25F75	10CT	10	2,500	TTV-7	6.5



TTV

	A	B	C	D	E
TTV-4	2 1/2	3	1 3/4	3 5/16	2 11/16
TTV-5	2 7/8	3 1/2	2	3 9/16	3 1/8
TTV-6	3 1/4	4	2 1/4	4	3 1/2
TTV-7	3 11/16	4 7/16	2 3/4	4 5/16	3 7/8
TTV-8	4 9/16	5 1/4	2 1/2	5 5/16	4 3/4



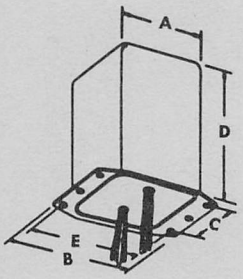
PUV

	25F39	25F42
A	4 1/16	4 1/16
B	6 1/8	7 1/2
C	5 5/8	7
D	5 3/16	5 3/16
E	2 3/16	2 3/16

Filament with Multiple Secondary

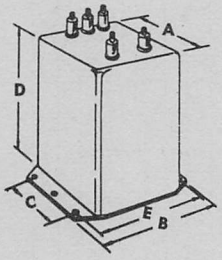
PRIMARY 105-115-125 VOLTS 50/60 CYCLES

Part No.	Volts	Amps.	Test Volts RMS	Case Size	Wt. Lbs.
25F93	5.0CT 5.0CT 5.0CT	3 3 6	5,000	TTV-7	7
25F86	5.0 6.3CT	2 2.5	2,500	TTV-4	2.75
25F88	5.0 6.3CT	3 5	2,500	TTV-5	3.5
25F89	5.0 6.3CT 6.3CT	3 3 3	2,500	TTV-6	4.75
25F90	5.0 6.3CT 6.3CT	3 1 5	2,500	TTV-6	4.75
25F87	5.0 12.6CT	2 1.25	2,500	TTV-4	2.75
25F91	6.3CT 6.3CT	3 3	2,500	TTV-5	3.5
25F92	6.3CT 6.3CT	6 6	2,500	TTV-7	6.5



TAV

	A	B	C	D	E
TAV-3	2 1/4	2 11/16	1 1/2	2 7/8	2 3/8



TSV

	A	B	C	D	E
TSV-8	4 9/16	5 1/4	2 1/2	5 5/16	4 3/4
TSV-10	6 1/8	6 1/2	4 1/4	7 1/16	6

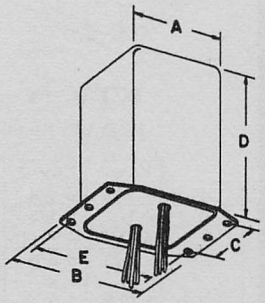
* Primary 107/117 Volts, 50/60 Cycles
■ Primary 125-135-230 Volts, 50/60 Cycles
● Primary 117 Volts, 50/60 Cycles.
Exact replacement for Heathkit OP-1 scope.

POWER TRANSFORMERS

Power

PRIMARY 117 VOLTS, 50/60 CYCLES

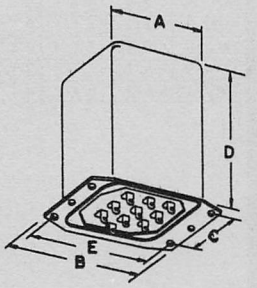
These ruggedized transformers will provide plate and filament supply for a number of tubes most popular in modern circuits. Temperature rise will not exceed 50° C—comfortably within RETMA standards. These transformers are encased in steel to provide strength, climate resistance, electrostatic and magnetic shielding, ease in mounting, and in modern compact appearance. Current ratings and mounting types are matched with the filter reactors shown on the next page.



TAV

Part No.	Plate Supply		Rectifier		Filament		Filament		Mtg. Type	Wt. Lbs.
	Volts	M.A.D.C.*	Volts	Amps.	Volts	Amps.	Volts	Amps.		
25R01 25R23	225-0-225	L 70 C 40	5	2	6.3 CT	2			TAV-5 TTV-5	3¼
25R02 25R24	270-0-270	L 95 C 55	5	2	6.3 CT	2			TAV-5 TTV-5	3½
25R03 25R26	300-0-300	L105 C 60	5	2	6.3 CT	3			TAV-6 TTV-6	4½
25R04 25R27	335-0-335	L120 C 70	5	2	6.3 CT	3			TAV-6 TTV-6	4½
25R05 25R28	330-0-330	L145 C 85	5	2	6.3 CT	3			TAV-7 TTV-7	6
25R06 25R29	345-0-345	L180 C105	5	2	6.3 CT	3.5			TAV-7 TTV-7	6½
25R07 25R30	350-0-350	L 55 C 30	5	2	6.3 CT	2			TAV-5 TTV-5	3¼
25R08 25R31	375-0-375	L210 C120	5	3	6.3 CT	4			TAV-8 TTV-8	9½
25R09 25R32	370-0-370	L260 C150	5	3	6.3 CT	4	6.3 CT	1	TAV-8 TTV-8	11½
25R10 25R33	385-0-385	L350 C200	5	3	6.3 CT	4.5	6.3 CT	1	TAV-8 TTV-8	12
25R11 25R34	400-80-0- 80-400	L430 C250	5	6	6.3 CT	7	5.0	2	TAV-9 TTV-9	15
25R12 25R35	425-0-425	L 70 C 40	5	2	6.3 CT	3			TAV-6 TTV-6	4½
25R13 25R36	440-0-440	L 85 C 50	5	2	6.3 CT	3			TAV-7 TTV-7	6
25R14	440-0-440	L285 C165	5	3	6.3 6.3	7.5 0.6	6.3 6.3	3 3	TTV-8	12
25R15	450-0-450	L350 C200	5	2	6.3 6.3	4 4	6.3	0.6	TTV-8	12
25R16 25R37	450-0-450	L105 C 60	5	2	6.3 CT	3.4			TAV-7 TTV-7	6½
25R17 25R38	500-0-500	L120 C 70	5	3	6.3 CT	4			TAV-8 TTV-8	9½
25R18 25R39	510-0-510	L150 C 85	5	3	6.3 CT	4	6.3 CT	1	TAV-8 TTV-8	11½
25R19 25R40	520-0-520	L200 C115	5	3	6.3 CT	4.5	6.3 CT	1	TAV-8 TTV-8	12¼
25R20 25R41	550-370-75-0- 75-370-550	L300 C170	5	6	6.3 CT	5	6.3 CT	1	TAV-9 TTV-9	17½

* L for Choke input filter, C for Capacitor input filter.



TTV

Bias Transformers

COMBINATION PLATE AND FILAMENT SUPPLY **PRIMARY: 50/60 CYCLES**

Part No.	Primary	Plate Supply		Rectifier Filament		Mtg. Type	Wt. Lbs.
	Volts	Volts	M.A.D.C.	Volts	Amps		
25R21 25R42	115	180-160-140-120-0 120-140-160-180	150	5.0	3.0	TAV-6 TTV-6	5
25R22 25R43	230	180-160-140-120-0 120-140-160-180	150	5.0	3.0	TAV-6 TTV-6	5

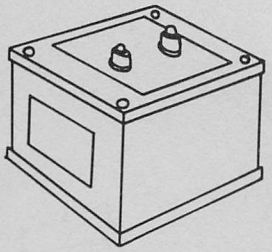
	TAV TTV 5	TAV TTV 6	TAV TTV 7	TAV TTV 8	TAV TTV 9
A	2⅞	3¼	$3\frac{11}{16}$	$4\frac{9}{16}$	$5\frac{5}{16}$
B	3½	4	$4\frac{7}{16}$	5¼	5⅞
C	2	2¼	2¾	2½	3½
D	$3\frac{9}{16}$	4	$4\frac{5}{16}$	$5\frac{5}{16}$	$6\frac{1}{16}$
E	3⅛	3½	3⅞	4¾	5⅜

Control

Line Adjusting Transformers

50/60 CYCLES

Part No.	VA Output	Primary Voltage	Secondary Voltage	Case Size	Wt. Lbs.
25V22	15	440	115	KAV-1	2
25V23	50	240/480	120/240	KAV-1	2.75
25V24	50	550/600	110/220	KAV-1	2.75
25V25	100	440	115	KAV-2	6
25V26	150	440	115	KAV-2	6
25V27	250	440	115	KAV-2	12



KTV lugs
KAV (leads)

	KAV-1	KAV-2
H	4 5/32	4 3/4
W	7 1/8	9 1/8
D	4 11/16	4 11/16
MTG. CENTERS	6 3/8 x 2 9/16 x 3 1/8	8 3/8 x 2 9/16 x 3 1/8

Line Adjusting Transformers with Tap Switch

50/60 CYCLES

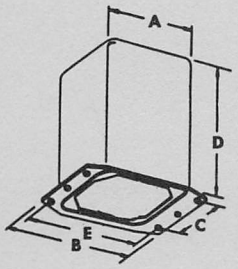
These line adjusting transformers provide a convenient method of adjusting for line voltage variations of 105, 115 or 125 Volts. They may also be used for secondary voltage changing to 125, 115 or 105 with 115 Volt Primary. All units Static Shielded for complete isolation.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Case Size	Wt. Lbs.
25V16	50	105/115/125	125/115/105	TMV-7	5
25V17	100	105/115/125	125/115/105	TMV-8	8.5
25V18	150	105/115/125	125/115/105	TMV-9	12.5
25V19	250	105/115/125	125/115/105	TMV-9	18.25

Line Isolation Transformers

50/60 CYCLES

Part No.	VA Output	Primary Voltage	Secondary Voltage	Case Size	Wt. Lbs.
25V20	175	117	117	TMV-8	9



TMV
Complete with line cord and receptacle.

	A	B	C	D	E
TMV-5	2 7/8	3 1/2	2	3 9/16	3 1/8
TMV-7	3 11/16	4 7/16	2 3/4	4 5/16	3 7/8
TMV-8	4 9/16	5 1/4	2 1/2	5 5/16	4 3/4
TMV-9	5 5/16	5 7/8	3 1/2	6 1/16	5 3/8
TMV-10	6 1/8	6 1/2	4 1/4	7 1/16	6

Step-Down Autoformers

50/60 CYCLES

Equipment requiring 110-125 Volts such as radios, amplifiers, television and other appliances may now be operated from a 220-250 Volt line. The primary or input side is equipped with a line cord and plug. The secondary or output side has a female receptacle. Simply plug in the appliance to the transformer and plug in the transformer to the 220 volt line outlet.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Case Size	Wt. Lbs.
25V10	50	220-250	110-125	TMV-5	2.75
25V11	100	220-250	110-125	TMV-7	4.25
25V12	150	220-250	110-125	TMV-8	7
25V13	250	220-250	110-125	TMV-8	8.75
25V14	500	220-250	110-125	TMV-9	14.5
25V15	1,000	220-250	110-125	TMV-10	22.5

Low Voltage Control

50/60 CYCLES

Part No.	VA Output	Primary Voltage	Secondary Volts	Secondary Amps.	Case Size	Wt. Lbs.
25V21	200	117	16/18/20	10	KTV	11
	MOUNTING CENTERS: 4 1/16 x 3 5/16 SCREW TYPE TERMINALS			H = 5 1/2	W = 5 1/16	D = 4 5/16

PART	REPLACEMENT
Fly-1	RCA *
Fly-2	RCA *
Fly-3	GE *
Fly-4	RCA *
Fly-5	Multi-Purpose
Fly-6	Admiral
Fly-7A	Sparton
Fly-8	Emerson *
Fly-9	Magnavox
Fly-10	Admiral
Fly-11	Philco
Fly-12	RCA *
Fly-12M	Muntz
Fly-13	Emerson
Fly-14	RCA *
Fly-15	RCA *
Fly-16	RCA *
Fly-17	Philco
Fly-18	Hoffman
Fly-19	GE
Fly-20	Motorola
Fly-21	Admiral
Fly-22	Sylvania
Fly-23	Sylvania
Fly-24	RCA *
Fly-24W	Hoffman
Fly-25	Crosley *
Fly-26	Magnavox
Fly-27	Philco
Fly-28	Magnavox
Fly-29	Motorola
Fly-30	Philco
Fly-31	Philco
Fly-32	Motorola
Fly-33	Motorola
Fly-34	Raytheon *
Fly-35	Raytheon *
Fly-36	Raytheon *
Fly-37	Raytheon *
Fly-38	RCA *
Fly-39	Raytheon *
Fly-40	Motorola
Fly-41	Raytheon *
Fly-42	Raytheon
Fly-43	RCA
Fly-44	RCA *
Fly-45	RCA
Fly-46	Emerson
Fly-47	Philco
Fly-48	Philco
Fly-49	GE & Majestic
Fly-50	Regal
Fly-51	Silvertone
Fly-52	Zenith
Fly-53	Zenith
Fly-54	Travler
Fly-55	Philco
Fly-56	Muntz
Fly-57	Motorola *
Fly-58	CBS *
Fly-59	Airking *
Fly-60	RCA
Fly-61	Dumont
Fly-62	Motorola
Fly-63	Motorola
Fly-64	Motorola
Fly-65	Motorola
Fly-66	RCA
Fly-67	Muntz
Fly-68	Silvertone *
Fly-69	Sylvania
Fly-70	Crosley
Fly-71	Crosley
Fly-72	Crosley
Fly-73	Westinghouse
Fly-74	Motorola
Fly-75	Admiral
Fly-76	Admiral
Fly-77	Admiral
Fly-78	Admiral
Fly-79	Magnavox
Fly-80	Raytheon *
Fly-81	Sylvania
Fly-82	Zenith
Fly-83	Zenith
Fly-84	Zenith
Fly-85	Crosley
Fly-86	GE
Fly-87	GE
Fly-88	GE
Fly-89	Emerson
Fly-90	GE
Fly-91	Sylvania
Fly-92	Sentinel *
Fly-93	Sentinel *
Fly-94	GE
Fly-95	Westinghouse *
Fly-96	Westinghouse *
Fly-97	Raytheon *
Fly-98	Raytheon *
Fly-99	Raytheon *
Fly-100	RCA
Fly-101	Raytheon
Fly-102	GE
Fly-103	CBS
Fly-104	GE
Fly-105	GE
Fly-106	CBS *
Fly-107	GE
Fly-108	GE
Fly-109	Hallicrafter *
Fly-110	Zenith
Fly-111	Zenith
Fly-112	GE
Fly-113	Sentinel *
Fly-114	Zenith
Fly-115	Dumont
Fly-116	Zenith
Fly-117	Zenith
Fly-118	Zenith
Fly-119	Philco
Fly-120	Crosley
Fly-121	Motorola
Fly-122	Admiral
Fly-123	Motorola
Fly-124	RCA
Fly-125	Silvertone
Fly-126	Silvertone
Fly-127	Silvertone
Fly-128	Zenith
Fly-129	Bendix
Fly-130	Philco
Fly-131	Philco
Fly-132	Zenith
Fly-133	Zenith
Fly-134	Capehart
Fly-135	Motorola
Fly-136	Admiral
Fly-137	Admiral
Fly-138	Bendix
Fly-139	Zenith
Fly-140	Crosley
Fly-141	Emerson
Fly-142	Emerson
Fly-143	Emerson
Fly-144	GE
Fly-145	GE
Fly-146	Hallicrafter *
Fly-147	Kaye Halbert *
Fly-148	RCA *
Fly-149	Magnavox *
Fly-150	RCA
Fly-151	Muntz
Fly-152	Muntz
Fly-153	CBS
Fly-154	Travler *
Fly-155	Travler
Fly-156	Magnavox
Fly-157	Mirrortone
Fly-158	Westinghouse
Fly-159	Westinghouse
Fly-160	Emerson
Fly-161	Hoffman
Fly-162	Motorola
Fly-163	Sparton
Fly-164	Sparton
Fly-165	Sparton
Fly-166	GE
Fly-167	GE
Fly-168	Silvertone
Fly-169	Wells Gardner *
Fly-170	Admiral
Fly-171	Sylvania
Fly-172	Admiral
Fly-173	Admiral
Fly-174	Admiral
Fly-175	Admiral
Fly-176	Admiral
Fly-177	GE
Fly-178	GE
Fly-179	Magnavox
Fly-180	Magnavox
Fly-181	Zenith
Fly-182	Zenith
Fly-183	Zenith
Fly-184	Zenith
Fly-185	Motorola
Fly-186	Motorola
Fly-187	Motorola
Fly-188	Motorola
Fly-189	Motorola
Fly-190	Motorola
Fly-191	Motorola
Fly-192	Motorola
Fly-193	Motorola
Fly-194	Motorola
Fly-195	Motorola
Fly-196	Philco
Fly-197	Philco
Fly-198	Muntz
Fly-199	RCA
Fly-200	RCA
Fly-201	RCA
Fly-202	Wells Gardner *
Fly-203	Wells Gardner *
Fly-204	Hoffman
Fly-205	Hoffman
Fly-206	Hoffman
Fly-207	Olympic
Fly-208	Olympic
Fly-209	Olympic
Fly-210	Silvertone *
Fly-211	Silvertone
Fly-212	Silvertone *
Fly-213	Sentinel
Fly-214	Travler
Fly-215	Westinghouse
Fly-216	Westinghouse
Fly-217	Zenith
Fly-218	Zenith
Fly-219	Zenith
Fly-220	Zenith
Fly-221	Philco
Fly-222	Philco
Fly-223	Airline *
Fly-224	Airline *
Fly-225	Airline *
Fly-226	Airline *
Fly-227	Airline *
Fly-228	Emerson
Fly-229	Emerson
Fly-230	Emerson
Fly-231	Emerson
Fly-232	Emerson
Fly-233	GE
Fly-234	GE
Fly-235	GE
Fly-236	Motorola
Fly-237	Motorola
Fly-238	Motorola
Fly-239	RCA
Fly-240	RCA
Fly-241	Motorola
Fly-242	Admiral
Fly-243	Admiral
Fly-244	Airline
Fly-245	Dumont
Fly-246	Magnavox
Fly-247	Magnavox
Fly-248	Magnavox
Fly-249	Magnavox
Fly-250	Zenith
Fly-251	Set. Carlson
Fly-252	Set. Carlson
Fly-253	Set. Carlson
Fly-254	Set. Carlson

* HAS ADDITIONAL APPLICATIONS SEE MANUFACTURER'S PART NUMBER LIST

MFR'S. PART	REPLACEMENT
Admiral	
79B65-1	Fly-136
79B70-1	Fly-122
79B77-6	Fly-172
79C17-1/-2/-3	Fly-4
79C19/-1/-2	Fly-1
79C23/-2	Fly-1
79C28-1/-3	Fly-1
79C30-1/-3	Fly-10
79C30-2/-4	Fly-6
79C36-1/-3	Fly-10
79C38-1	Fly-6
79C60-1	Fly-75
79C60-2	Fly-76
79C60-3/-4/-5/-6	Fly-77
79C60-10/-11	Fly-170
79C70-1	Fly-122
79C73-1	Fly-122
79D38-1	Fly-6
79D41-1/-2	Fly-21
79D48-1	Fly-78
79D65-1/-2/-3/-4	Fly-136
79D74-1/-2	Fly-170
79D77-2/-3/-4	Fly-137
79D77-6	Fly-172
79D77-7	Fly-175
79D77-8/-9	Fly-176
79D77-22	Fly-175
79D83-1/-2	Fly-173
79D83-4	Fly-174
79E77-7	Fly-175
79E77-8/-9	Fly-176
79E77-11	Fly-242
79E77-15	Fly-243
79E77-22	Fly-175
Airline	
C9.236	Fly-1
C9.240-1	Fly-1
C12M-18285	Fly-34
C12M-18689/-1/-2	Fly-35
C12M-19407-1/-2	Fly-36
C12M-19408	Fly-36
C201-18530	Fly-35
C201-18562/-1	Fly-35
C201-18842/43	Fly-36
C201-19269	Fly-36
C201-19533	Fly-36
12E-23939	Fly-80
12E-27097	Fly-99
20E995	Fly-25
22E42	Fly-1
53X296/229	Fly-1
53X319	Fly-169
53X320	Fly-169
53X330/336	Fly-37
53X355	Fly-203
53X359/A	Fly-202
53X362C/G	Fly-223
53X368/E	Fly-146
53X381	Fly-224
53X382A	Fly-226
53X386A	Fly-224
53X389	Fly-225
53X390	Fly-244
53X394	Fly-226
53X397/A	Fly-244
55C113	Fly-1
55C117	Fly-1
201-19817/-1/-3	Fly-36
201-19999	Fly-37
201-21025/-1	Fly-39
201-22396/-1	Fly-41
MW22E57/-2/-3/-5/-6	Fly-92
MW22E61-2-3	Fly-92
MW22E67	Fly-93
MW22E75/-L	Fly-113
493V004H04	Fly-95
493V004H06	Fly-95
493V004M04/06	Fly-95
R2057-1	Fly-154
Bendix	
265078-3	Fly-138
265106-1	Fly-80
NH265051-1	Fly-129
TSOH02	Fly-1
TSOH03	Fly-138

MFR'S. PART	REPLACEMENT
Capehart	
750002A	Fly-4
750163A-1/C-1	Fly-2
850220B-1/D-1	Fly-134
850285D-1/E-1	Fly-134
CBS-Columbia	
A10136/-B/-CM/-BW	Fly-58
PC10136/R	Fly-58
PC10137	Fly-58
PC10147	Fly-106
PC10155	Fly-16
PC10161	Fly-106
12000151	Fly-153
12000751	Fly-153
12001051	Fly-103
12001091	Fly-103
12001101	Fly-153
12001131	Fly-103
12001191	Fly-155
Coronado	
12E23939	Fly-80
12E25423	Fly-97
12E25424	Fly-97
12E27097	Fly-99
12E27149	Fly-98
53X296	Fly-1
53X319	Fly-169
53X320	Fly-169
53X326	Fly-37
53X328	Fly-37
53X329	Fly-37
53X330	Fly-37
53X336	Fly-37
53X346	Fly-37
53X355	Fly-203
53X359	Fly-202
53X368/E	Fly-146
55A333	Fly-146
55C113-1	Fly-1
C-12M-18285	Fly-34
C12M-18408	Fly-36
C12M-18689	Fly-35
C12M-18689-1/-2	Fly-35
C12M-19407/-1/-2	Fly-36
C12M-19408	Fly-36
C201-18530	Fly-35
C201-18562/-1	Fly-35
T-124A/B	Fly-5
T-124D	Fly-3
80-252	Fly-1
521066	Fly-24
201-19817-1	Fly-36
Crosley	
AC145629	Fly-1
AC145902	Fly-4
AD148258	Fly-85
AD149567	Fly-85
AD149661	Fly-85
AD151195	Fly-85
AD151802	Fly-85
AD155514-1A	Fly-71
B144724	Fly-1
W139194	Fly-1
W160201	Fly-1
145629	Fly-1
153619	Fly-85
154069-1	Fly-70
154990	Fly-70
155445-1/-2/-5	Fly-72
15514-1	Fly-71
156330-1	Fly-71
157045-1	Fly-71
157820-5-1/-6	Fly-25
158481-1/-2	Fly-25
158481-5/-3-5	Fly-25
159412-1/-5-3-12	Fly-25
159412/-1-3	Fly-25
159947-1/-2	Fly-120
172387-2	Fly-140
Dumont	
20003951	Fly-4
20004061	Fly-4

MFR'S. PART	REPLACEMENT
20004261	Fly-1
20005021	Fly-61
20006731	Fly-115
20008061	Fly-12
20010611/12/13	Fly-245
20-375	Fly-1
738168	Fly-245
800204	Fly-245
Emerson	
738000	Fly-1
738009	Fly-1
738012	Fly-1
738014	Fly-4
738015	Fly-1
738024	Fly-4
738028	Fly-1
738034	Fly-46
738047/48/A	Fly-2
738053	Fly-2
738060	Fly-8
738067	Fly-13
738073/75	Fly-13
738079	Fly-160
738082/83	Fly-13
738084	Fly-160
738085/86	Fly-13
738087	Fly-16
738091	Fly-89
738096	Fly-89
738099	Fly-89
738100	Fly-89
738103	Fly-141
738106	Fly-142
738107	Fly-142
738109	Fly-141
738111	Fly-142
738119	Fly-143
738122	Fly-143
738128/29	Fly-143
738140	Fly-143
738142	Fly-228
738145	Fly-228
738154	Fly-229
738155	Fly-231
738160	Fly-230
738162	Fly-231
738168	Fly-245
738169	Fly-232
739000	Fly-1
Firestone	
A10104	Fly-59
A10108	Fly-59
A10135	Fly-59
A10136/37	Fly-58
PC10104	Fly-59
PC10108	Fly-59
PC10147	Fly-106
PC10155	Fly-16
TTR154	Fly-1
508883	Fly-5
508971	Fly-5
509385	Fly-15
12E23939	Fly-80
12E25423/24	Fly-97
12E27097	Fly-99
12E27149	Fly-98
12E27949	Fly-98
22E34	Fly-1
53X326	Fly-37
53X330	Fly-37
53X342	Fly-37
53X346	Fly-37
53X347	Fly-37
53X355	Fly-203
53X359/A	Fly-202
55-304	Fly-146
12000082	Fly-58
12000092	Fly-58
General Electric	
77J1	Fly-3
RTO-068	Fly-3
RTO-071	Fly-3
RTO-101	Fly-49
RTO-104	Fly-49
RTO-109	Fly-49
RTO-114	Fly-49
RTO-116	Fly-5

Flybacks

MFR'S. PART	REPLACEMENT
General Electric - cont'd	
RTO-125	Fly-86
RTO-126	Fly-86
RTO-127	Fly-86
RTO-130/129	Fly-87
RTO-131/132	Fly-88
RTO-141	Fly-88
RTO-146/-3	Fly-19
RTO-148	Fly-19
RTO-149/-1	Fly-90
RTO-150	Fly-90
RTO-151-3	Fly-102
RTO-161	Fly-112
RTO-165-1	Fly-105
RTO-166/-5	Fly-104
RTO-173	Fly-105
RTO-174	Fly-104
RTO-175/-3	Fly-94
RTO-179	Fly-107
RTO-183	Fly-108
RTO-187	Fly-94
RTO-190	Fly-107
RTO-196	Fly-144
RTO-207/-9	Fly-166
RTO-208	Fly-145
RTO-210-11	Fly-167
RTO-214/-11	Fly-167
WT77X40	Fly-167
WT77X41	Fly-233
WT77X42	Fly-177
WT77X43	Fly-178
WT77X44	Fly-178
WT77X45	Fly-234
WT77X46	Fly-235
Hallicrafters	
55-117	Fly-1
55-301	Fly-146
55-304	Fly-146
55-307	Fly-146
55C113	Fly-1
55C121-1	Fly-1
55C152/B	Fly-12
55C156/E	Fly-8
55C171	Fly-8
55C180	Fly-24
55C301	Fly-146
55D180	Fly-24
55D193	Fly-57
55D197	Fly-57
55D251	Fly-25
55D270	Fly-25
55D285	Fly-109
Hoffman	
5134	Fly-1
5135	Fly-4
5139	Fly-24W
5148	Fly-24W
5149	Fly-24W
5154A/-3	Fly-205
5155	Fly-24W
5156	Fly-14
5158A/-2	Fly-204
5160	Fly-14
5165	Fly-206
5184	Fly-18
5187	Fly-161
5191A	Fly-109
T5102	Fly-1
782002	Fly-204
Kay Halbert	
C2112	Fly-147
Magnavox	
320026-1/34-1	Fly-1
320035-1	Fly-4
320042/48	Fly-1
320055-1	Fly-246
320061-1/-3	Fly-246
320811-1	Fly-180
360532	Fly-26
360552-1/-2	Fly-26
360552-2A	Fly-26
360560-1	Fly-247
360561-1	Fly-247
360577-1	Fly-26
360580-1	Fly-28
360604-1	Fly-28
360606/-1	Fly-79
360614/-1	Fly-248
360623/-1	Fly-248
360659-1	Fly-149
360700-1/-2	Fly-156
360777-1	Fly-249
360779-1	Fly-179
Motorola	
24D65410A01	Fly-236
24D65410A02	Fly-241
24D65410A04	Fly-237
24D65410A05	Fly-238
24A790184	Fly-32
24B740941	Fly-193
24C701134	Fly-33
24C701552	Fly-29
24C701636	Fly-29
24C710636	Fly-33
24C711265/A	Fly-63
24C711652	Fly-29
24C721290/C	Fly-63
24C730902	Fly-20
24C731610	Fly-74
24C736084	Fly-64
24C736487	Fly-162
24C739283	Fly-190
24C740135	Fly-194
24C740136	Fly-195
24C740969	Fly-191
24C742047	Fly-193
24C742676	Fly-191
24C744042	Fly-188
24C744043	Fly-186
24C744406	Fly-192
24C790184	Fly-32
24C790958	Fly-65
24C792596	Fly-33
24C792691	Fly-40
24K700588	Fly-33
24K701099	Fly-33
24K702975	Fly-62
24K711266	Fly-63
24K711937	Fly-62
24K712193	Fly-62
24K721290/C	Fly-63
24K721301/C	Fly-63
24K722126	Fly-63
24K730692	Fly-63
24K730902	Fly-20
24K730903	Fly-20
24K730904	Fly-20
24K731937	Fly-190
24K732584	Fly-74
24K732746	Fly-20
24K732747	Fly-20
24K733106	Fly-64
24K733407	Fly-74
24K733646	Fly-64
24K735844	Fly-57
24K736488	Fly-121
24K737218	Fly-135
24K378699	Fly-162
24K739284	Fly-123
24K741937	Fly-190
24K741938	Fly-123
24K743536	Fly-135
24K745108	Fly-186
24K745364	Fly-189
24K745702	Fly-192
24K746570	Fly-187
24K748397/W	Fly-185
24K751190	Fly-191
24K790958	Fly-65
24K791974	Fly-32
24K792753/D	Fly-33
25C90052	Fly-1
Muntz	
TO-17A	Fly-1
TO-20/21	Fly-1
TO-174	Fly-1
TO-0017A	Fly-1
TO-0020	Fly-151
TO-0021	Fly-151
TO-0024	Fly-151
TO-0028	Fly-67
TO-0029	Fly-67
TO-0031/-2	Fly-12M
TO-0036	Fly-56
TO-0039	Fly-152
TO-0054/55	Fly-198
Olympic	
TR-1342	Fly-1
TR-1492	Fly-1
TR-1914	Fly-1
TR-2293/-1	Fly-59
TR-2615	Fly-59
TR-2771/-1	Fly-14
TR-2771-2	Fly-12
TR-3597-1/-2	Fly-75
TR-3599/-2	Fly-14
TR-3599-5	Fly-207
TR-5598/-B	Fly-208
TR-26205	Fly-209
TR-26205-1	Fly-209
Philco	
32-8305	Fly-1
32-8409	Fly-1
32-8428-1/-2	Fly-47
32-8453/-3	Fly-48
32-8465-2	Fly-30
32-8484-2	Fly-31
32-8509	Fly-30
32-8509-2	Fly-31
32-8533	Fly-55
32-8534	Fly-55
32-8555	Fly-11
32-8565	Fly-27
32-8572	Fly-119
32-8607	Fly-27
32-8634	Fly-17
32-8653	Fly-27
32-8695/-1	Fly-131
32-8709	Fly-130
32-8753/-1	Fly-197
32-8757	Fly-197
32-8795/-1	Fly-197
32-8830-1/-2/-3	Fly-196
32-8853/-1	Fly-196
32-8855/-1	Fly-196
32-8899-1	Fly-221
32-8951-2/-4	Fly-222
RCA	
71416	Fly-1
73570	Fly-1
74145	Fly-4
74951	Fly-2
75240	Fly-45
75519	Fly-45
75585	Fly-45
76154	Fly-45
76381	Fly-45
76501	Fly-43
77833	Fly-66
78201	Fly-60
78810	Fly-60
79145	Fly-60
79736	Fly-60
79870	Fly-60
100285	Fly-124
100828	Fly-124
100860	Fly-60
103092	Fly-100
103839	Fly-148
104309	Fly-200
104236	Fly-201
104481	Fly-100
104876	Fly-150
105648	Fly-199
106063	Fly-150
106144	Fly-100
106169	Fly-100
106219	Fly-201
106533	Fly-200
107698	Fly-239
109954	Fly-240
109961	Fly-240
211T1/-3	Fly-1
211T5	Fly-4
217T1	Fly-147
225T1	Fly-12
230T1	Fly-14
231T1	Fly-15
232T1	Fly-38
235T1	Fly-16
971239-1	Fly-60
971239-2	Fly-60
971390-1	Fly-43
971390-2	Fly-66
971715-1	Fly-60
971715-2	Fly-60
972401-1/-2	Fly-60
972401-3	Fly-200
972440-1/-2	Fly-124
972440-3	Fly-201
972914-1	Fly-100
972942-1	Fly-150
973432-1	Fly-100
973463-1	Fly-199
973907-1	Fly-201
50-94292-1	Fly-148
Sentinel	
20E995	Fly-25
20E995-2	Fly-25
20E1029	Fly-213
20E1256C	Fly-213
22E34-2	Fly-1
22E42	Fly-1
22E57/-2/-3	Fly-92
22E57-4/-5/-6	Fly-92
22E61/-2/-3	Fly-92
22E67	Fly-93
22E75/-2	Fly-113
320805-2	Fly-213
360659-1	Fly-149
Setchell Carlson	
WF-9	Fly-251
TF-10	Fly-252
WF-14	Fly-253
WF-30	Fly-254
WF-70	Fly-253
WF-71	Fly-254
WF-80	Fly-254
WF-90	Fly-251
TWF-90	Fly-251
T-103	Fly-252
T-111	Fly-252
T-123	Fly-253
T-124	Fly-253
T-132	Fly-254
T-133	Fly-254
HF-155	Fly-252
PF-155	Fly-252
Silvertone	
A1095	Fly-1
A10100	Fly-1
A10104	Fly-59
A10108	Fly-59
A10126	Fly-51
A10135	Fly-59
A10136	Fly-58
A10137	Fly-58
M55C144	Fly-5
M55C154	Fly-5
M55C155	Fly-5
M55C156	Fly-8
M55C171	Fly-8
N24989	Fly-12
N40513	Fly-16
PC10107	Fly-59
PC10138	Fly-51
PMC56002	Fly-12
R65441	Fly-1
R70155	Fly-1
R70930	Fly-1
T80-263	Fly-68
T80-265/G	Fly-68
T80-278	Fly-37
T80-279	Fly-68
T80-293	Fly-37
T80-320	Fly-125
T80-370	Fly-24
TTR-154	Fly-1
TTR-181-D	Fly-1
TTR-186-D/-1D	Fly-1
TTR-208-D	Fly-2
TTR-210	Fly-5
TTR-212	Fly-5
W508058	Fly-1
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55-301	Fly-146
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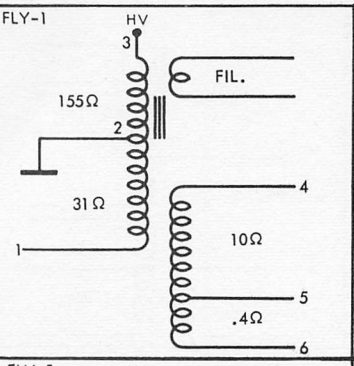

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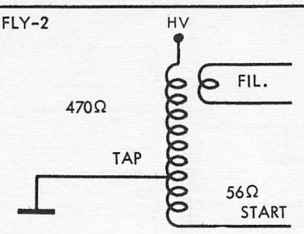

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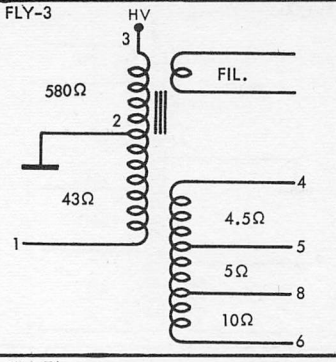

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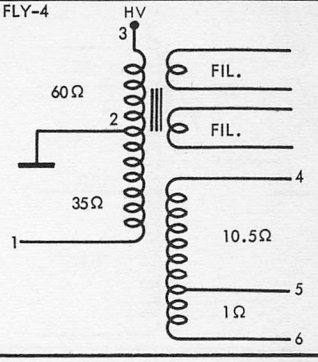

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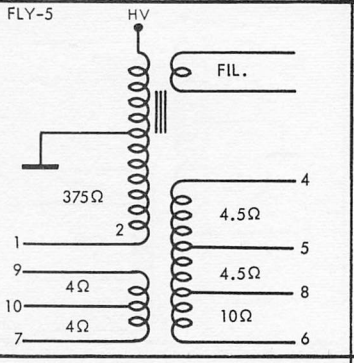

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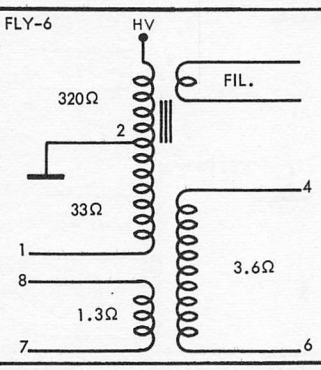

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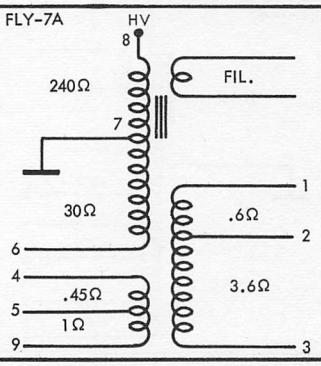

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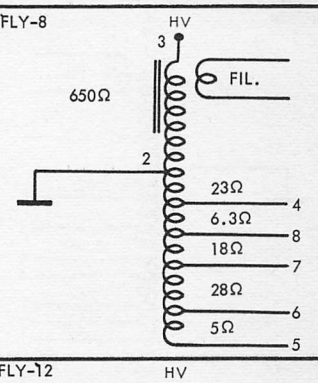

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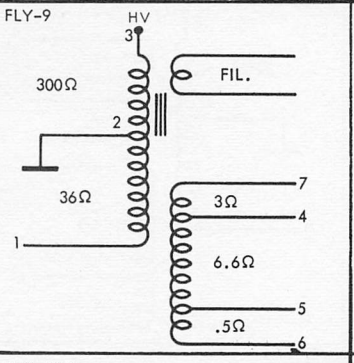

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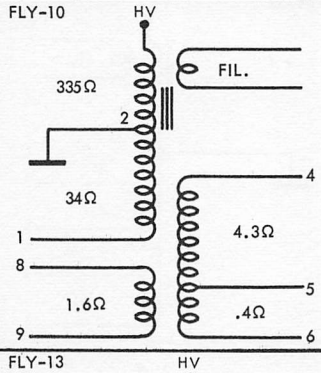

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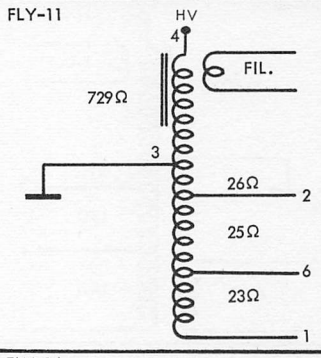

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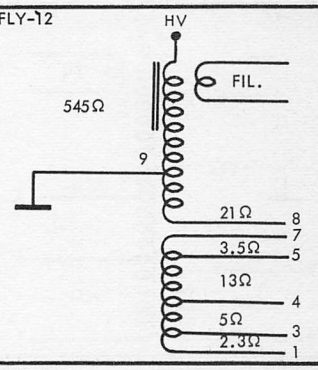

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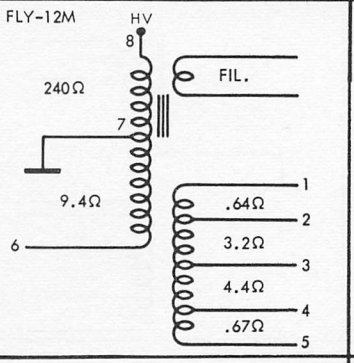

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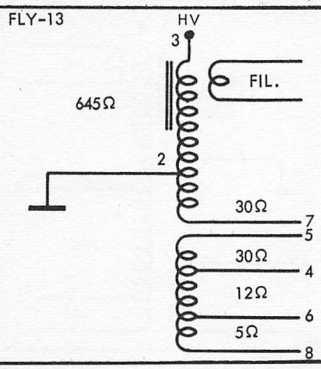

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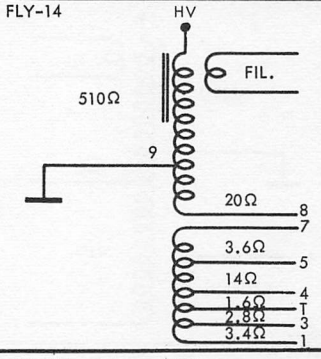

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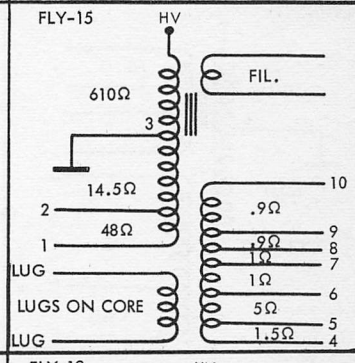

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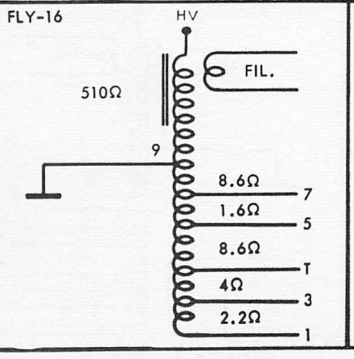

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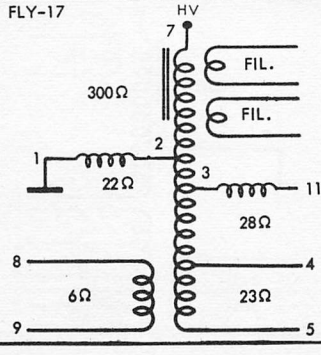

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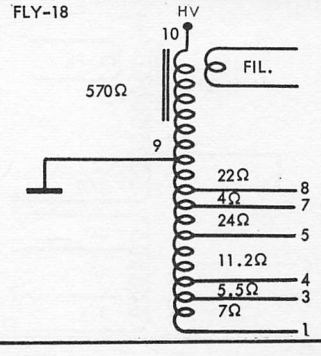

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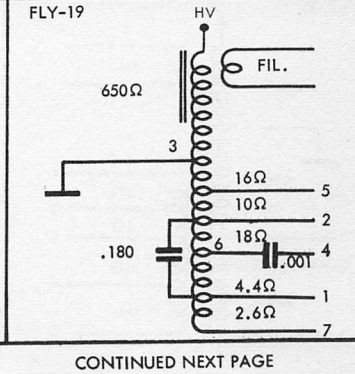

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Flybacks

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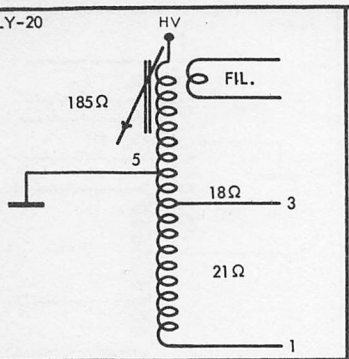

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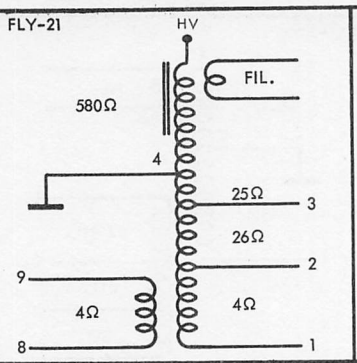

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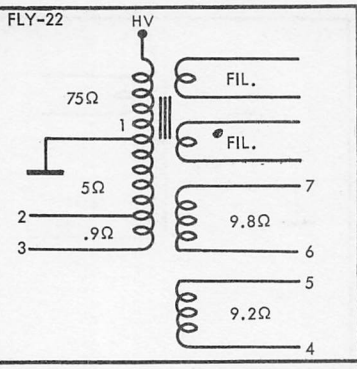

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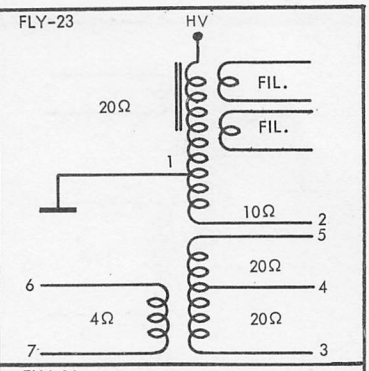

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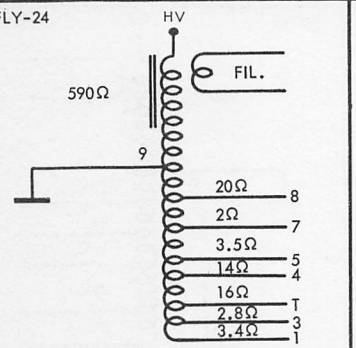

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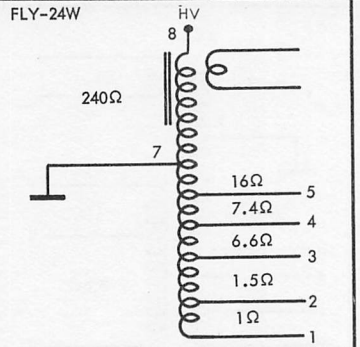

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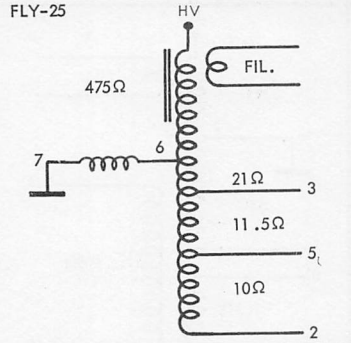

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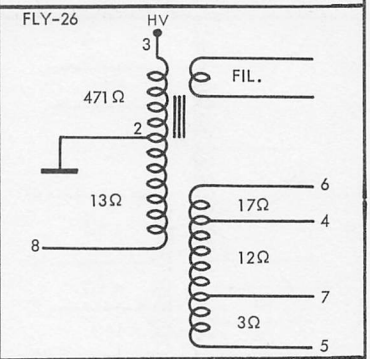

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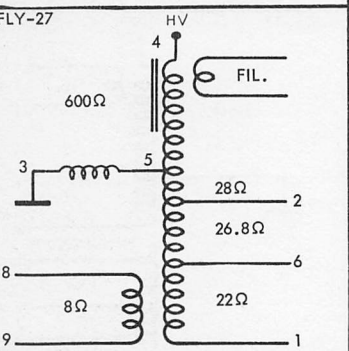

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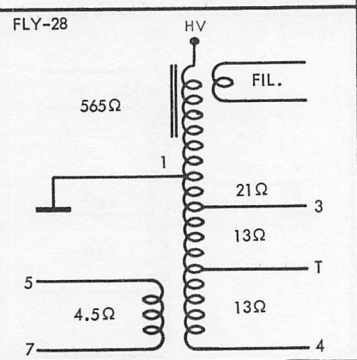

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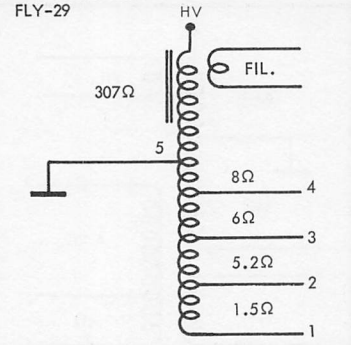

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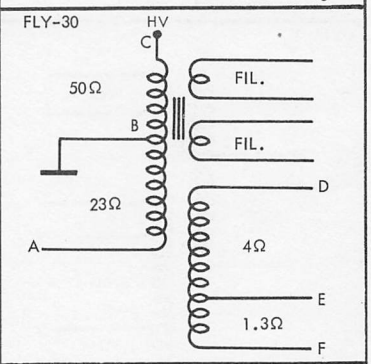

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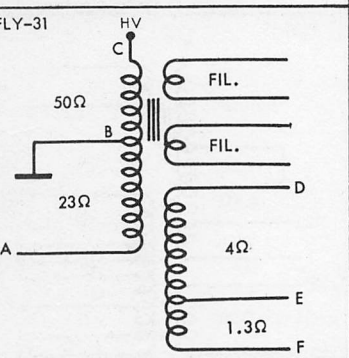

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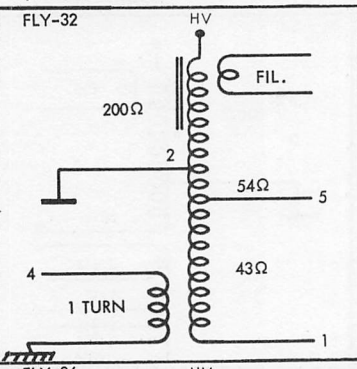

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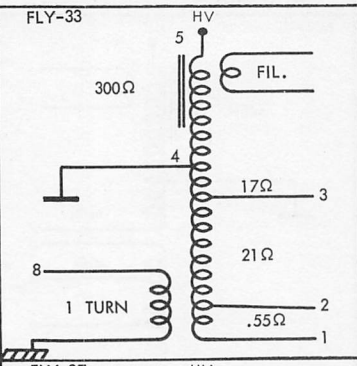

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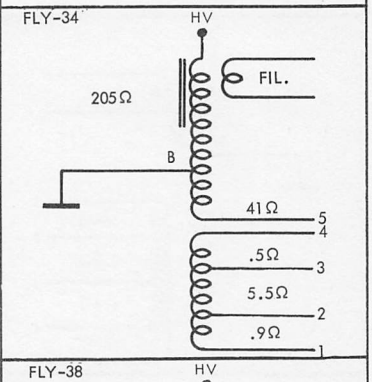

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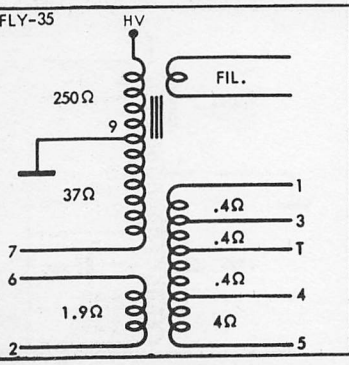

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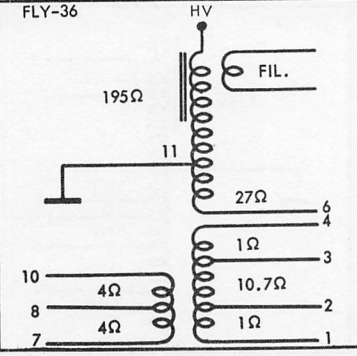

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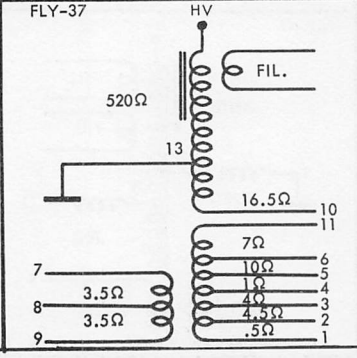

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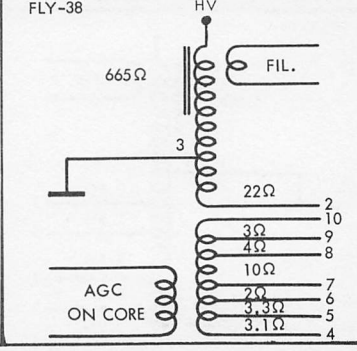

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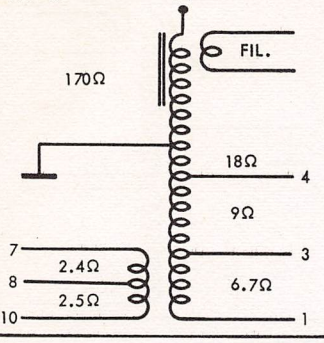

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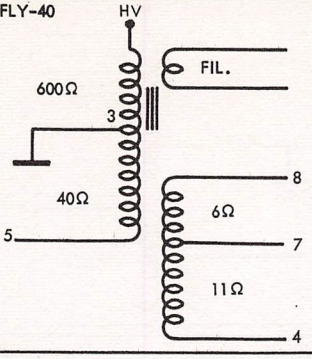

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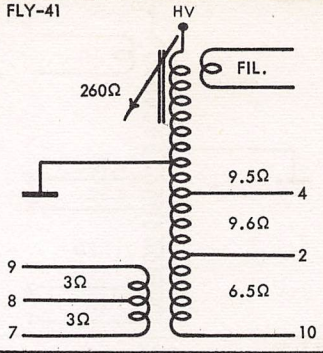

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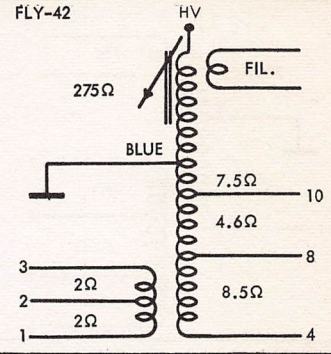

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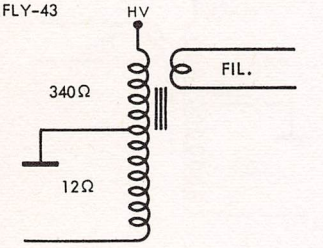

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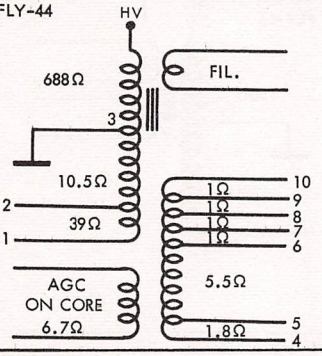

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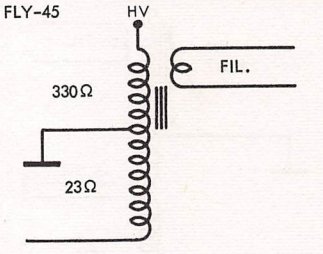

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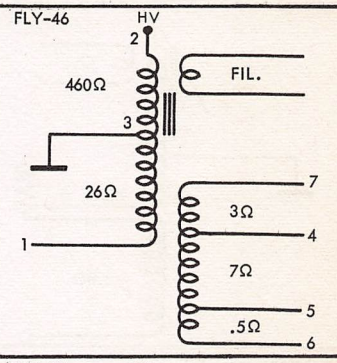

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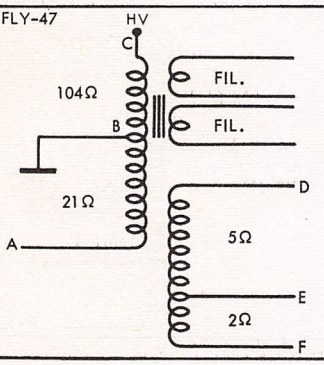

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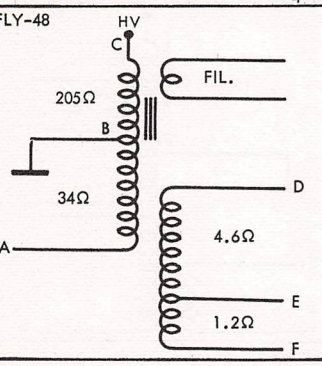

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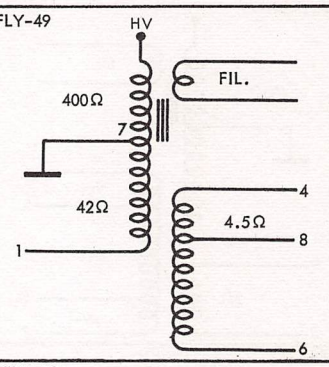

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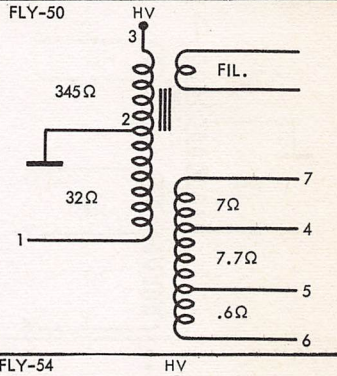

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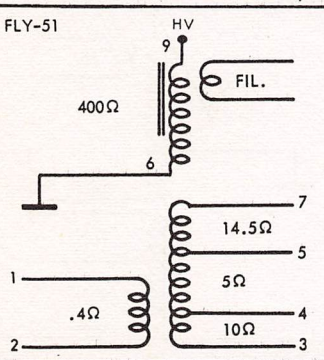

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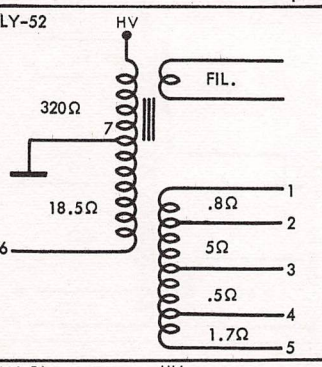

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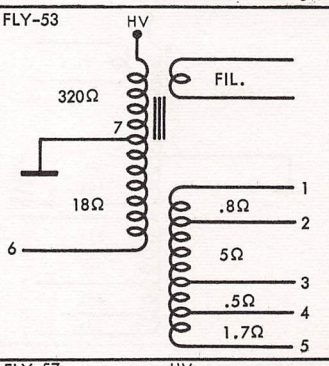

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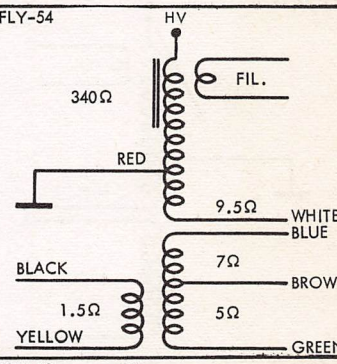

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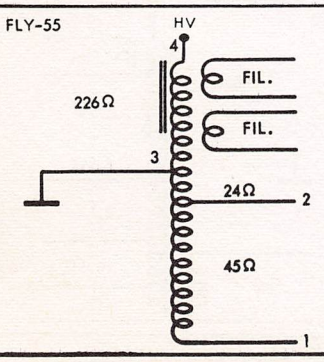

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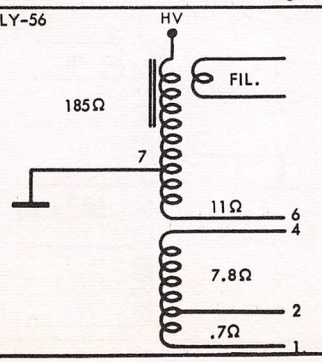

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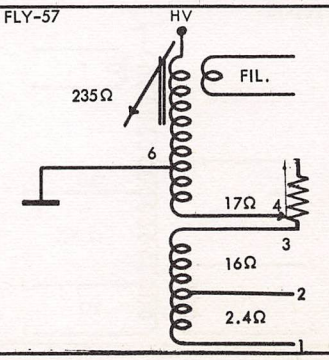

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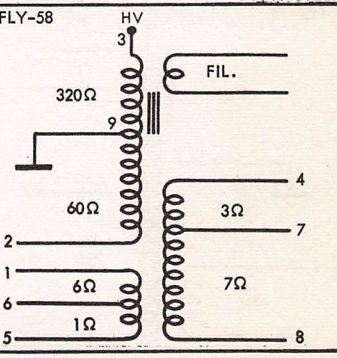

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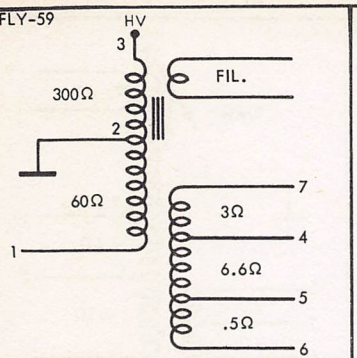

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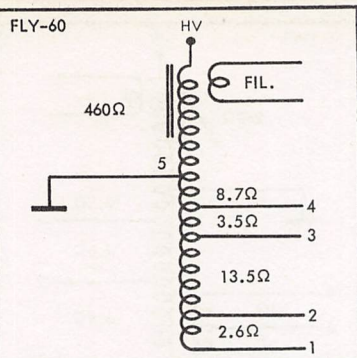

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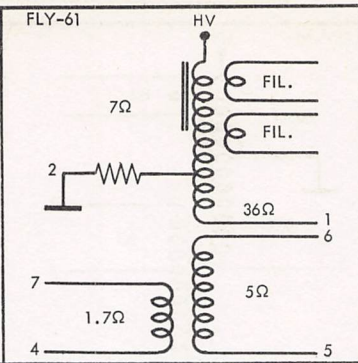

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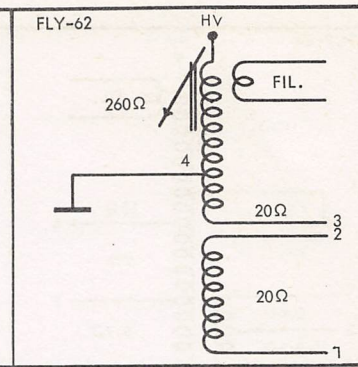

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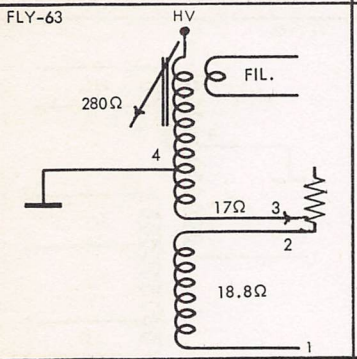

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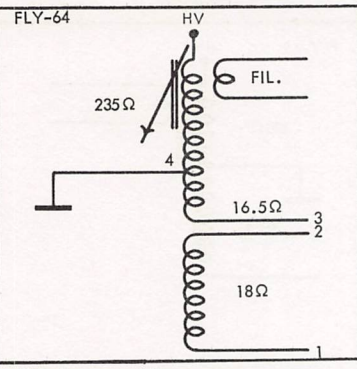

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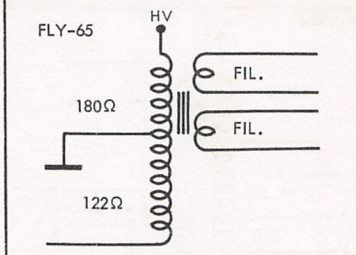

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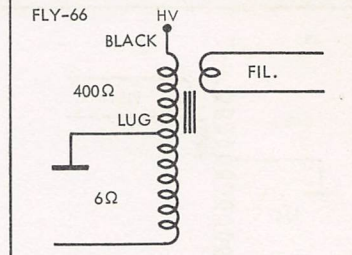

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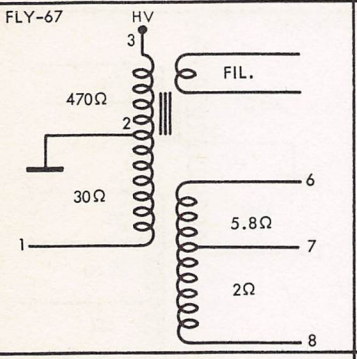

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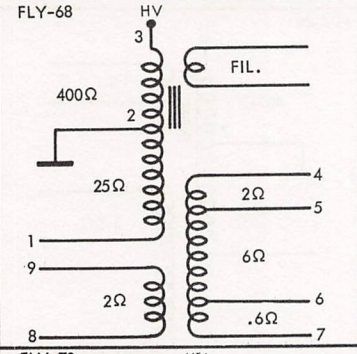

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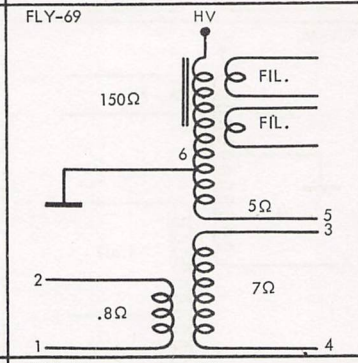

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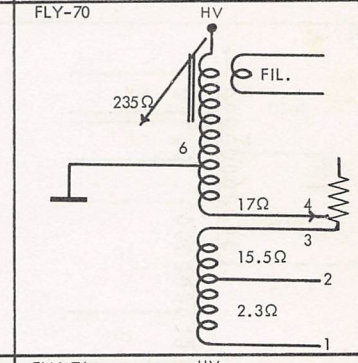

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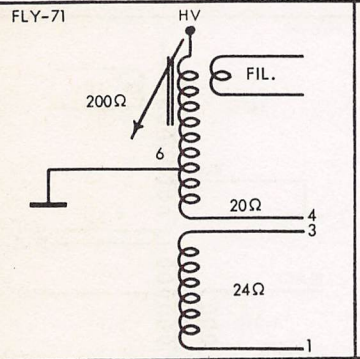

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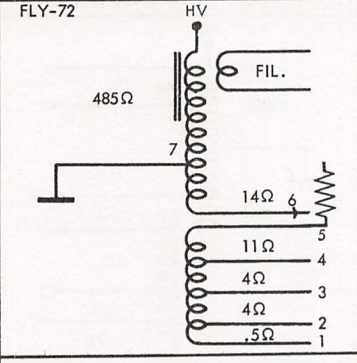

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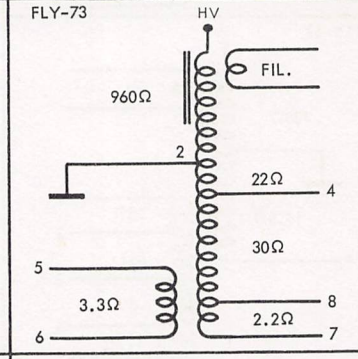

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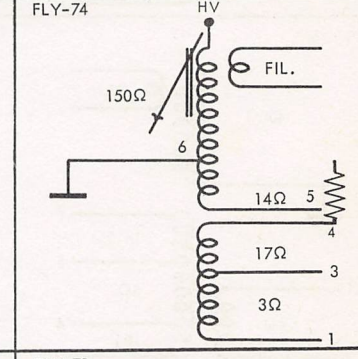

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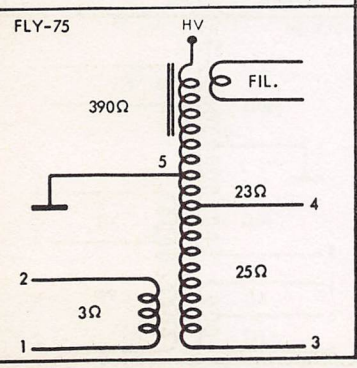

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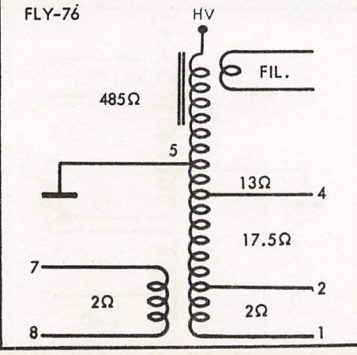

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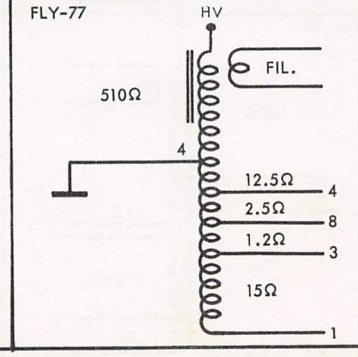

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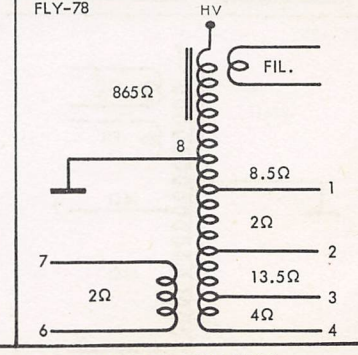

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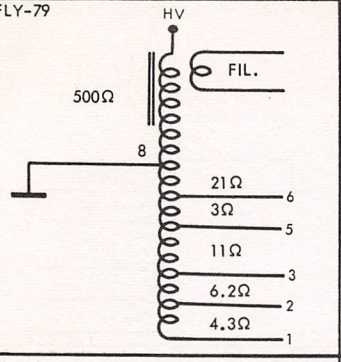

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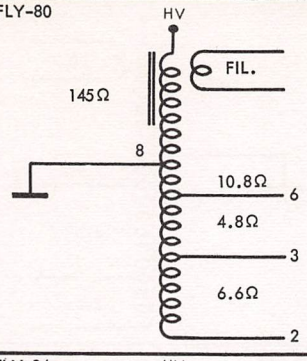

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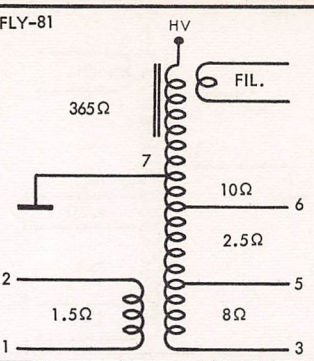

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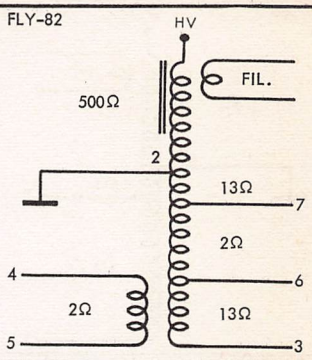

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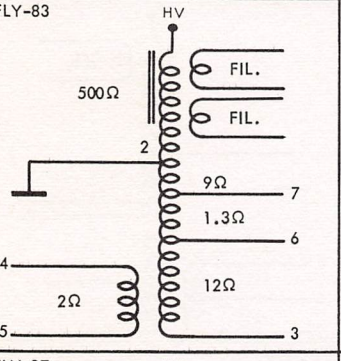

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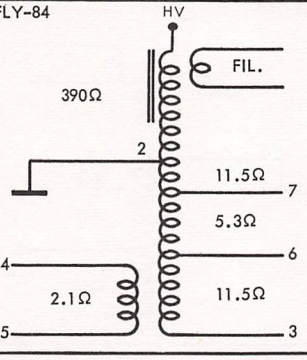

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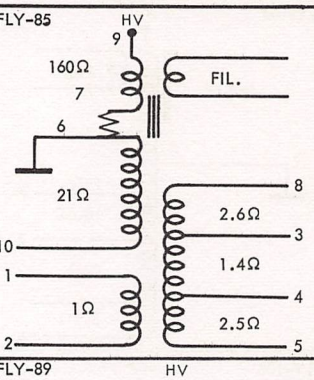

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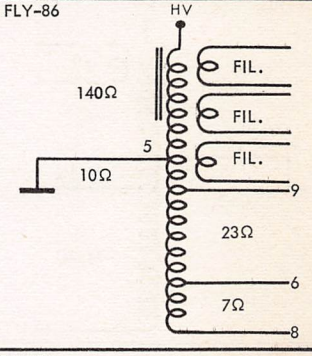

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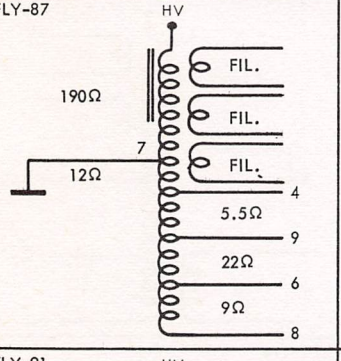

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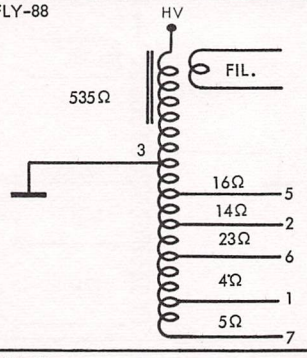

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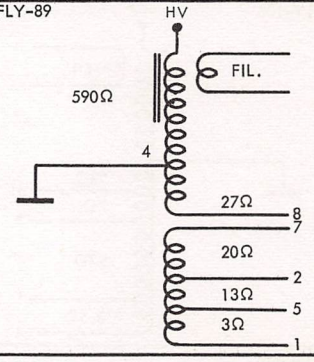

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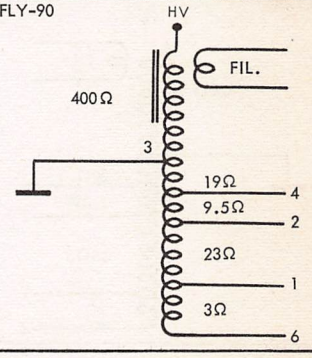

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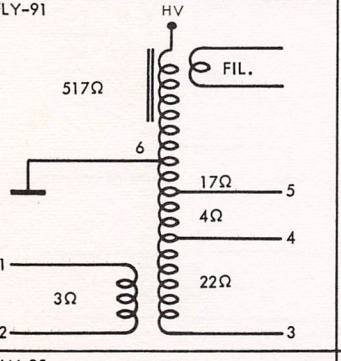

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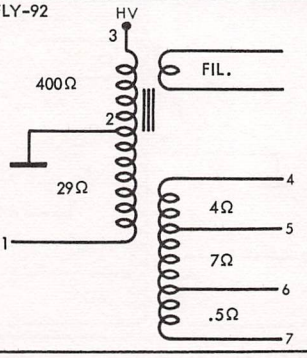

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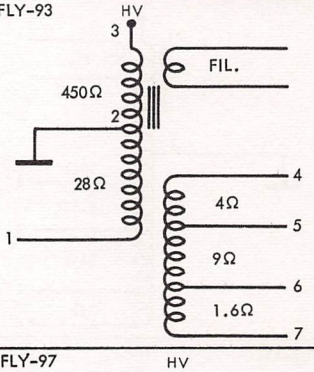

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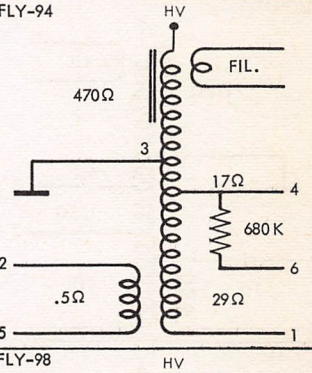

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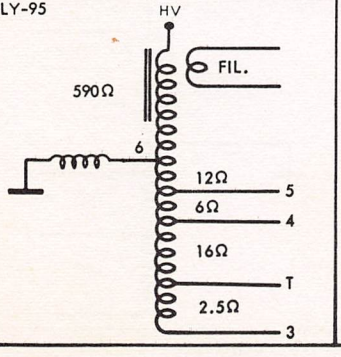

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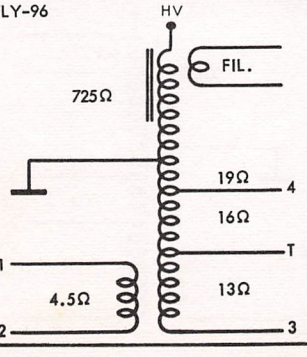

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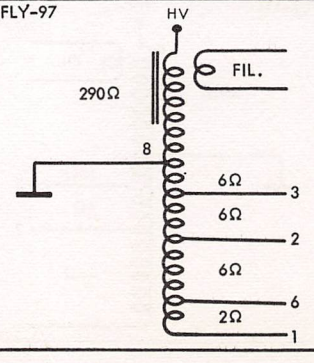

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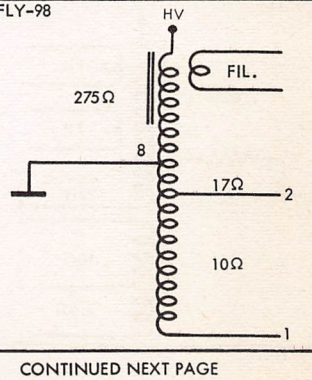

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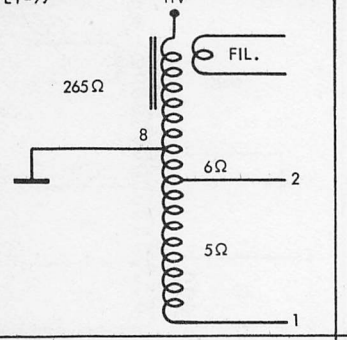

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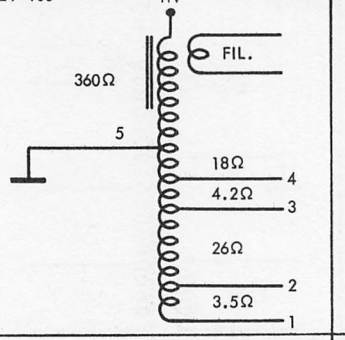

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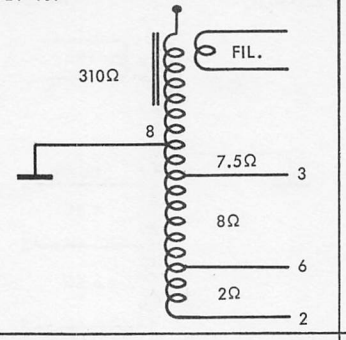

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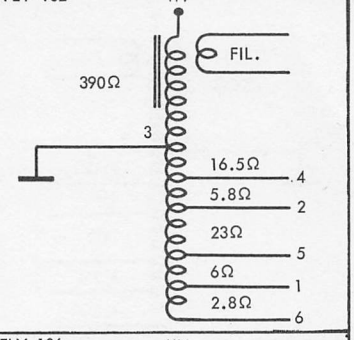

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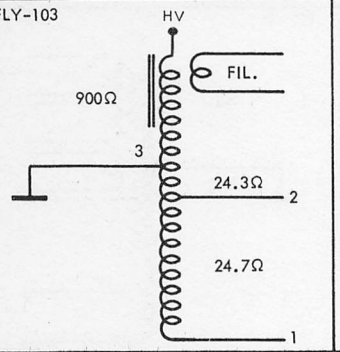

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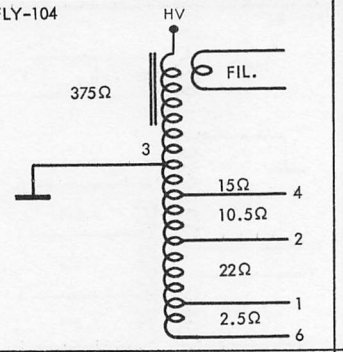

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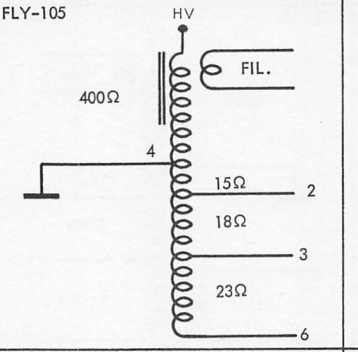

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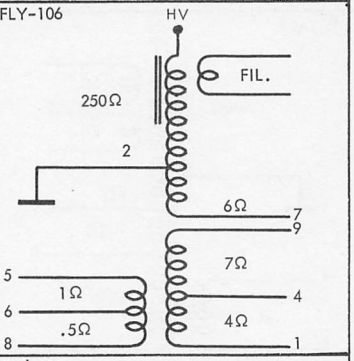

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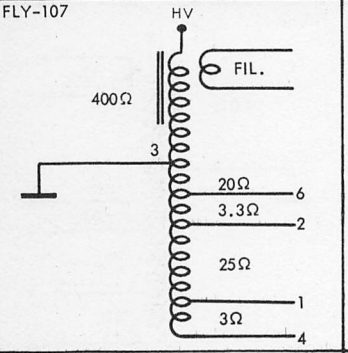

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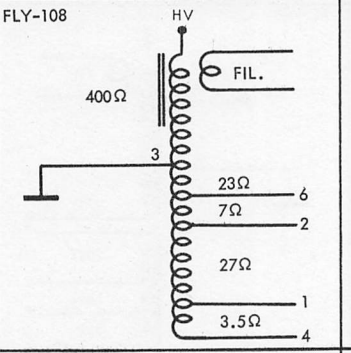

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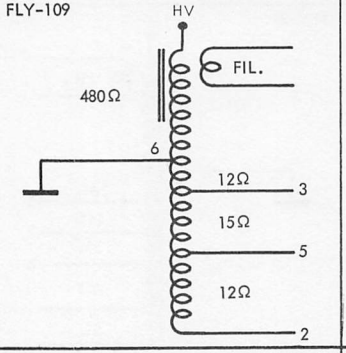

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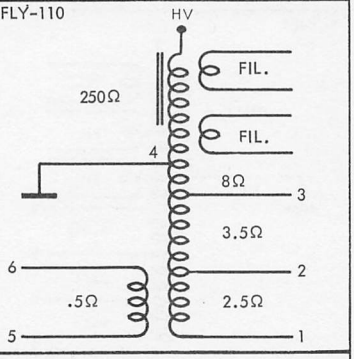

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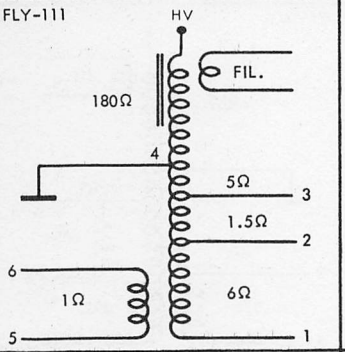

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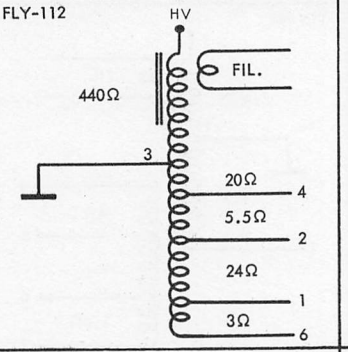

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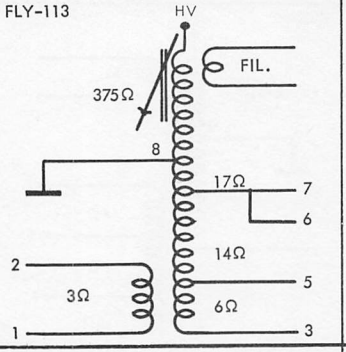

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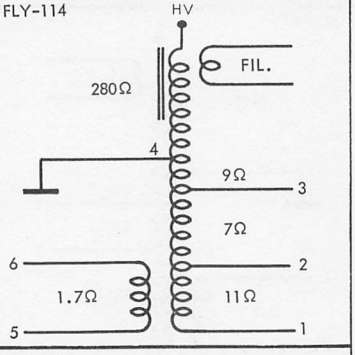

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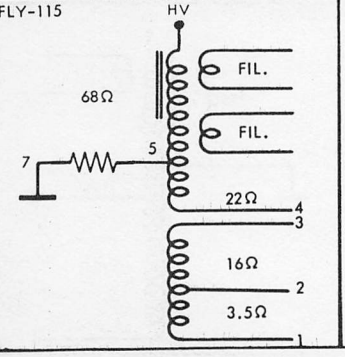

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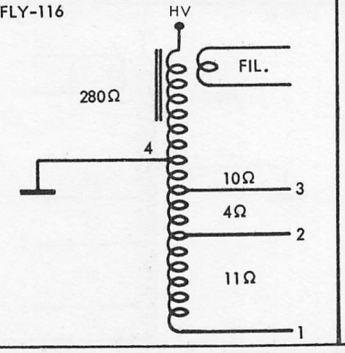

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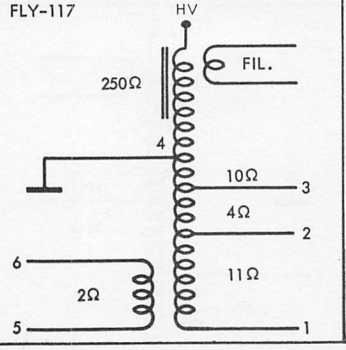

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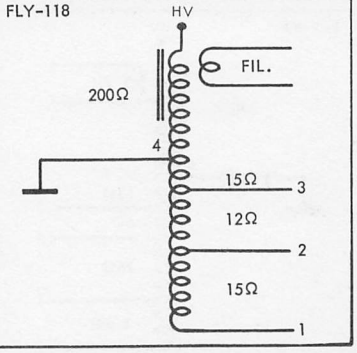

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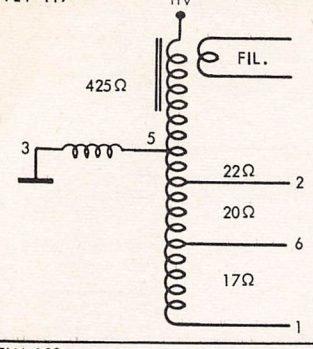

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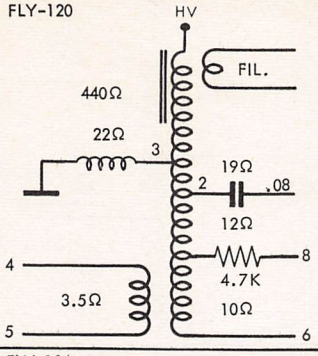

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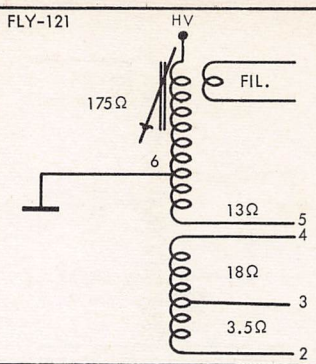

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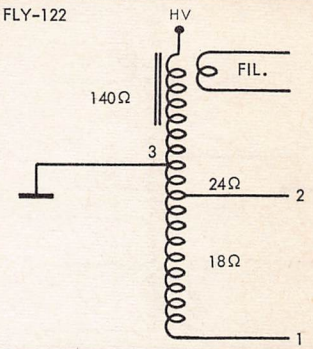

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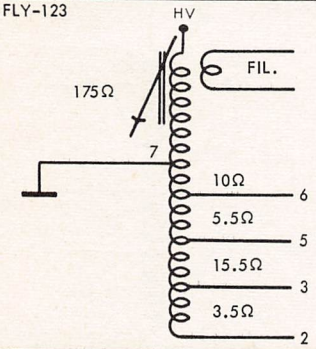

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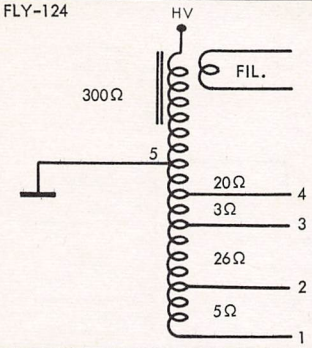

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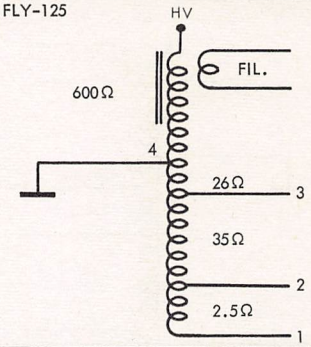

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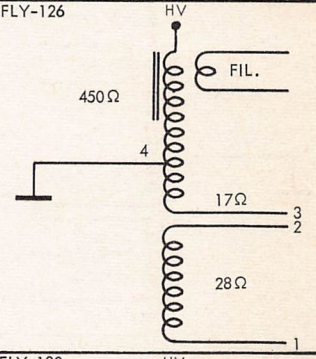

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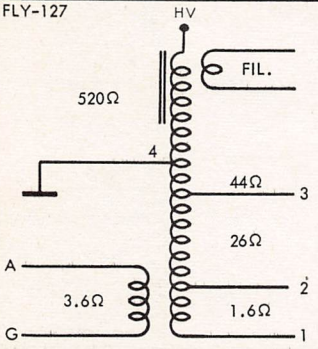

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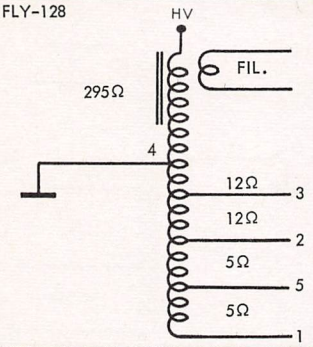

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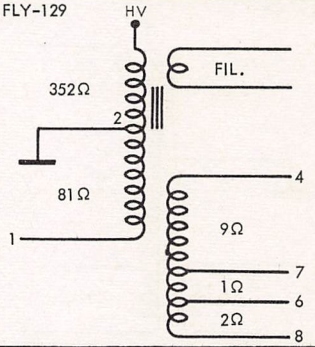

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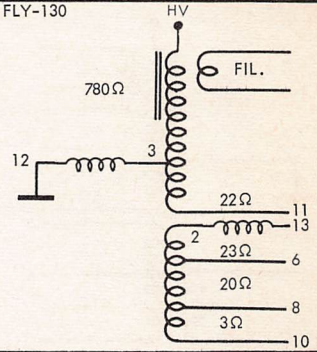

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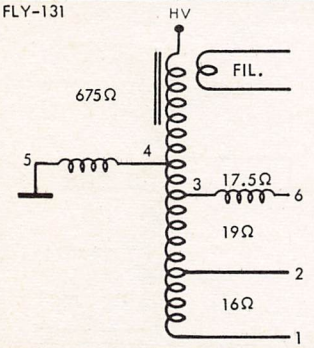

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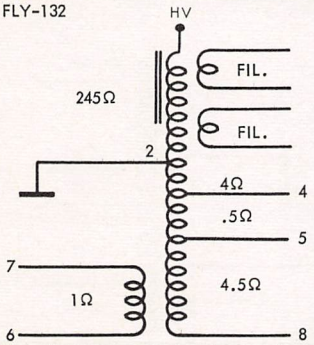

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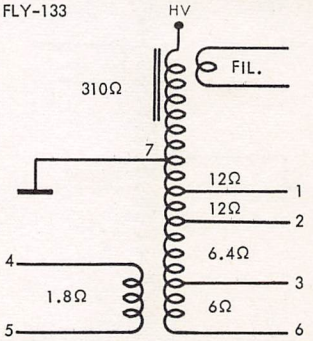

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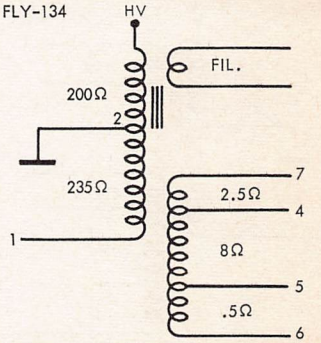

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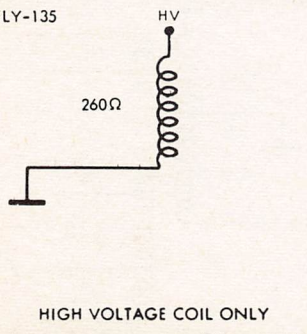

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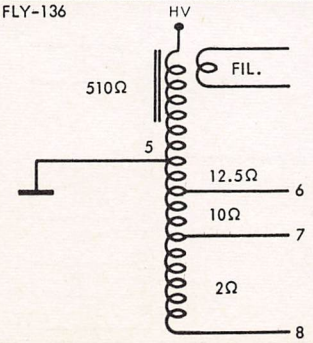
FLY-136



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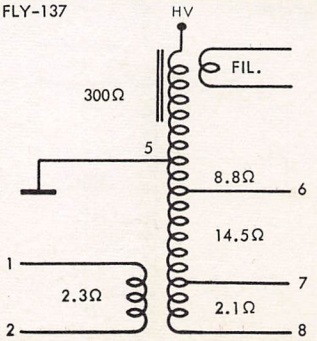

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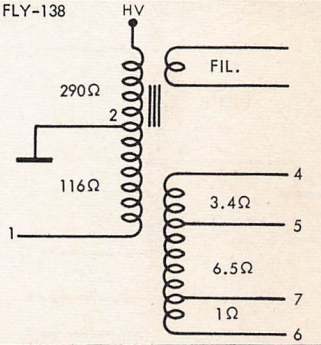

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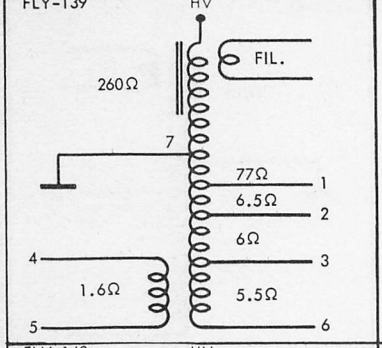

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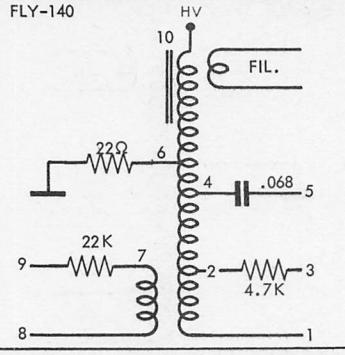

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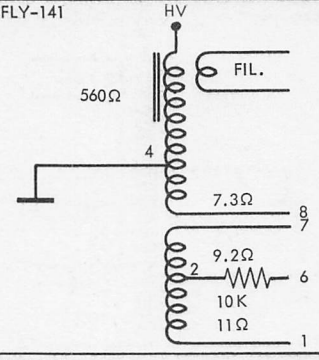

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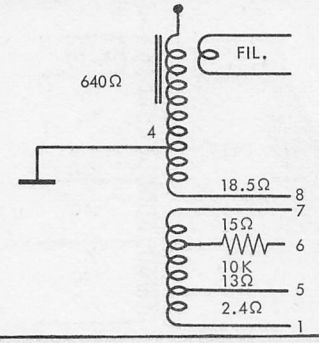

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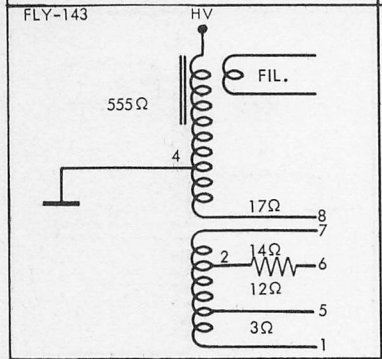

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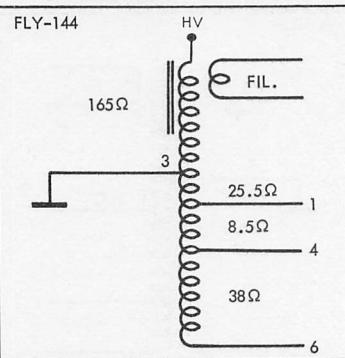

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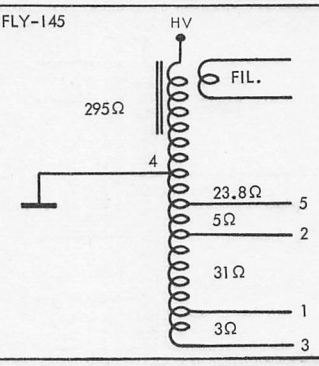

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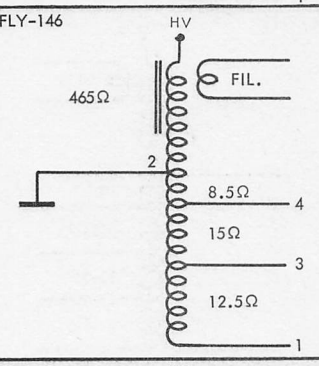

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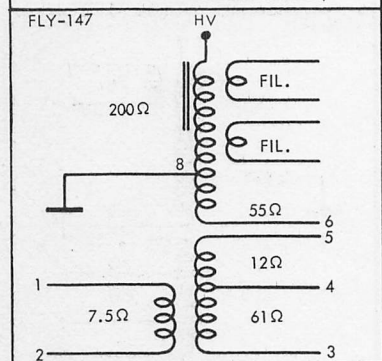

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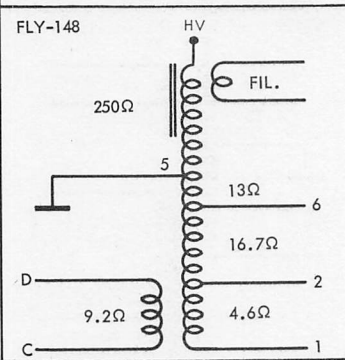

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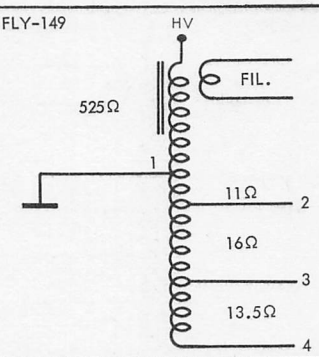

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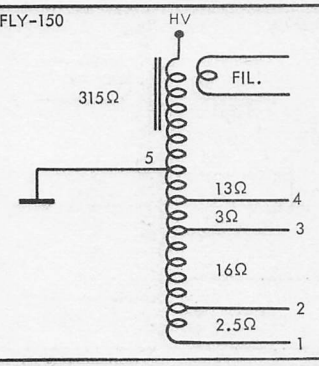

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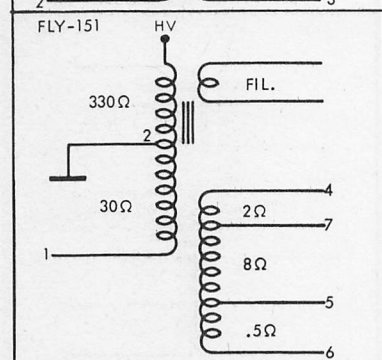

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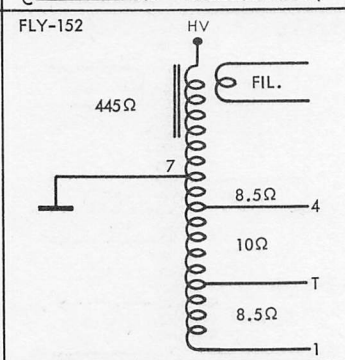

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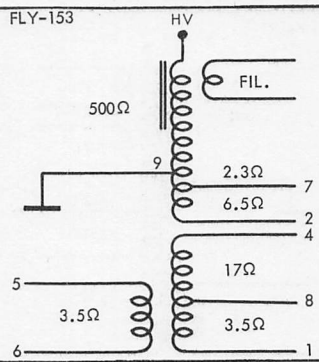

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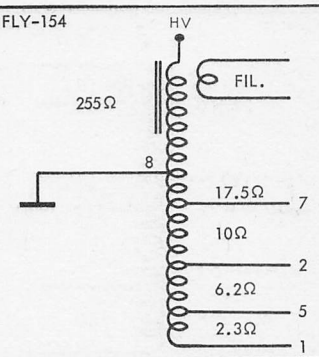

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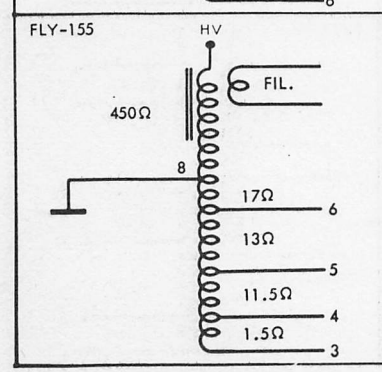

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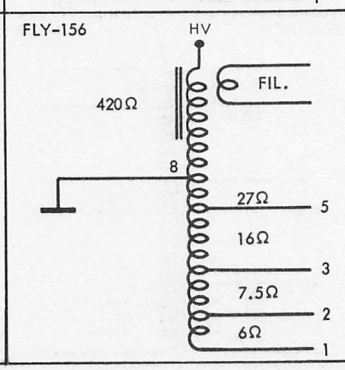

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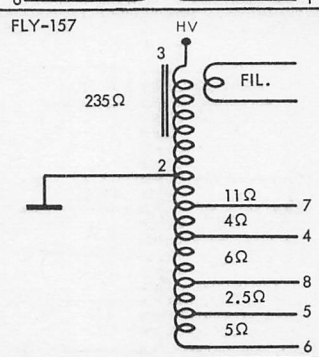

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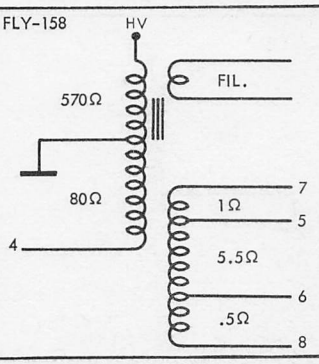

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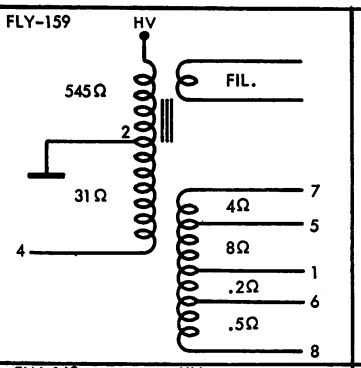

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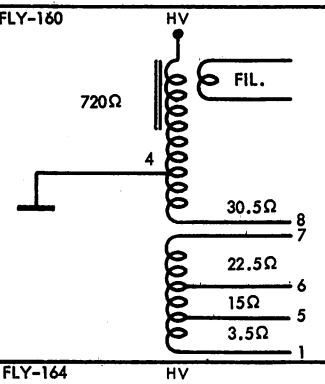

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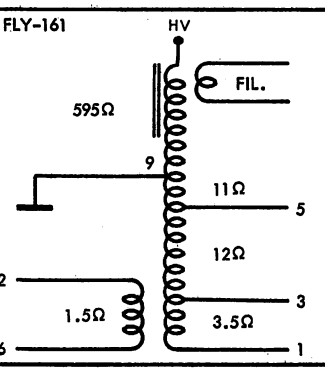

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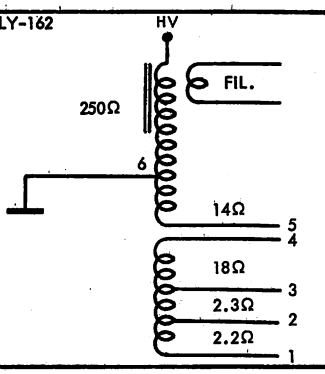

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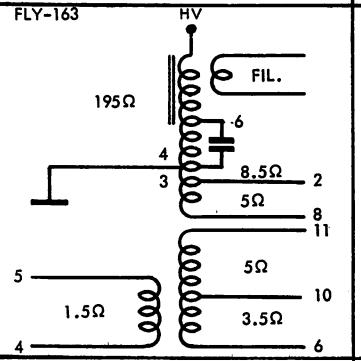

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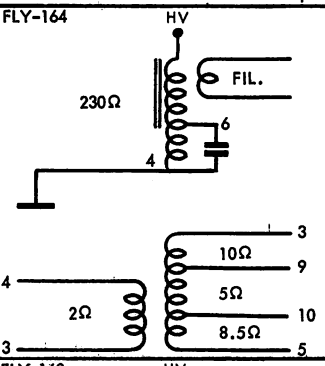

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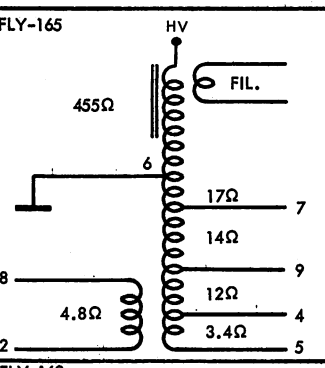

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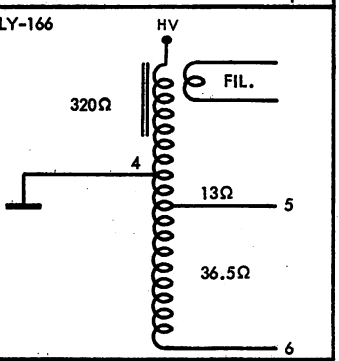

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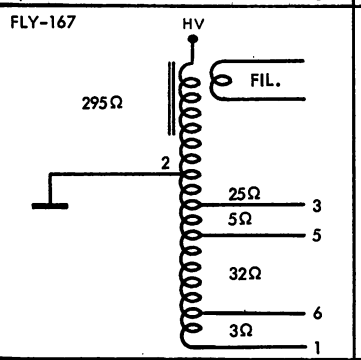

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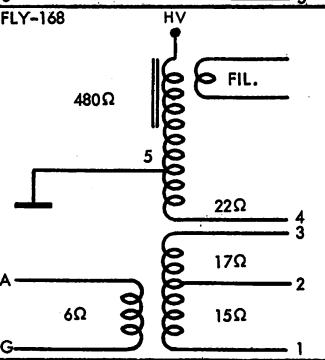

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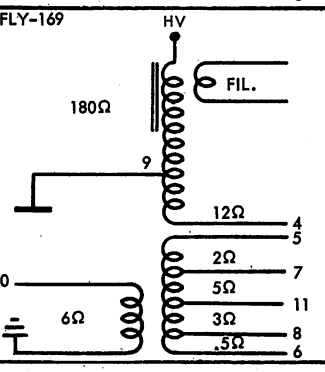

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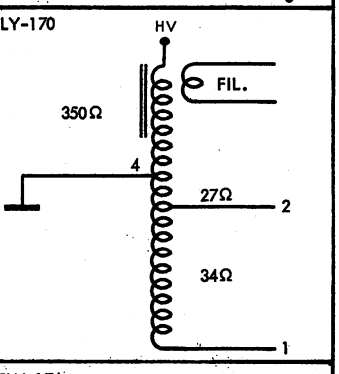

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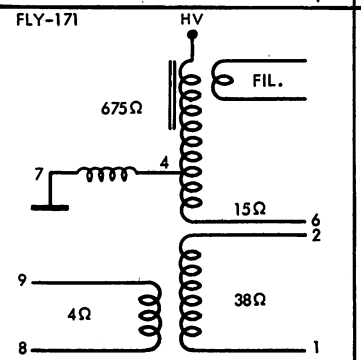

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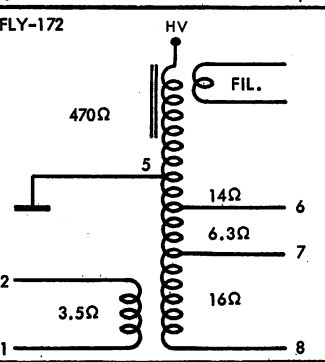

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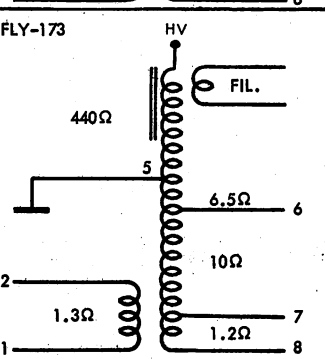

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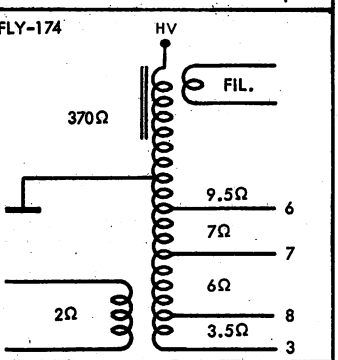

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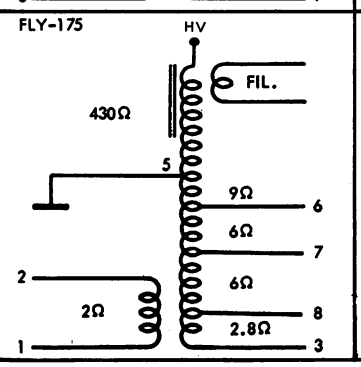

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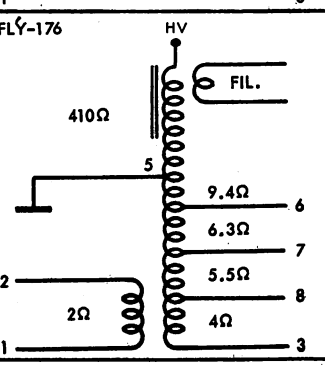

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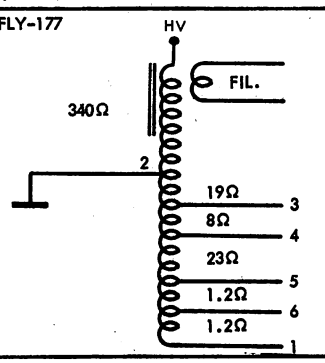

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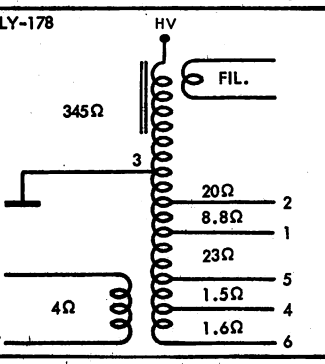

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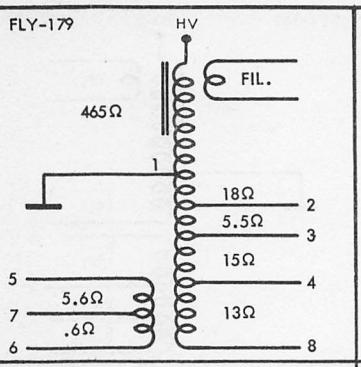
Flybacks

FLY-179



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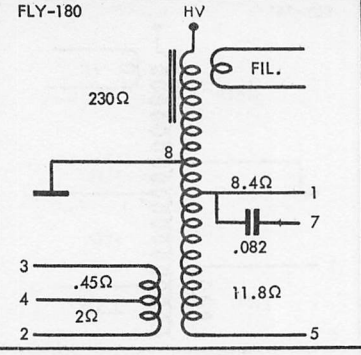

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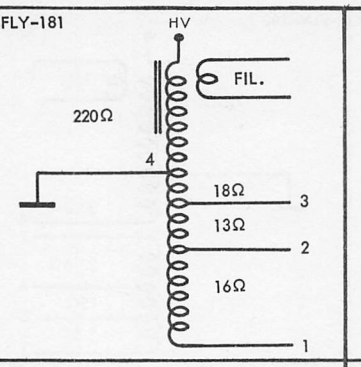

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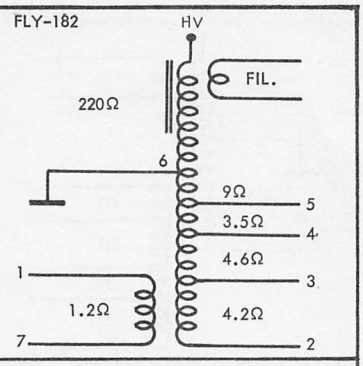

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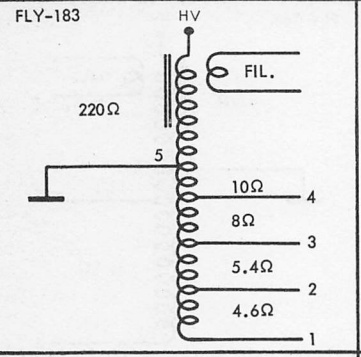

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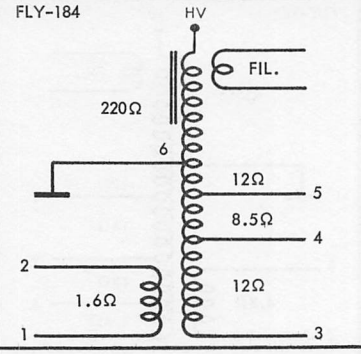

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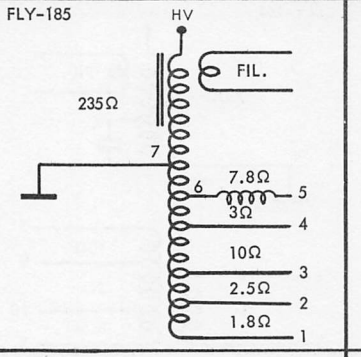
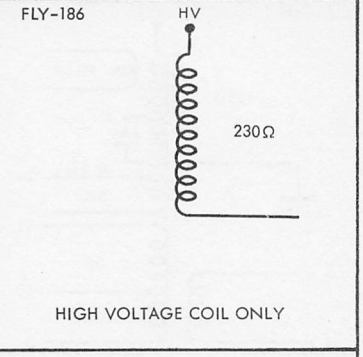
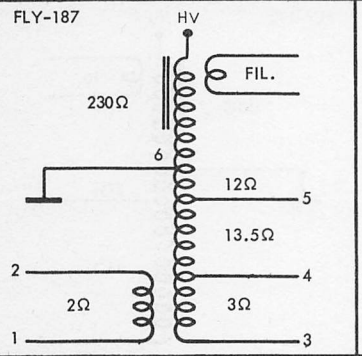


FLY-186

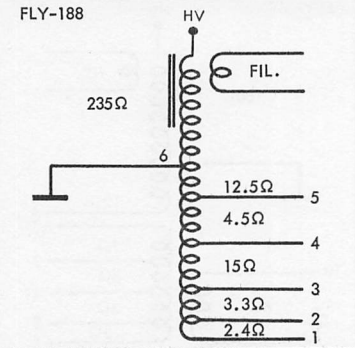


HIGH VOLTAGE COIL ONLY

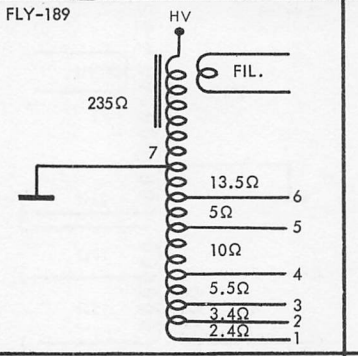
FLY-187



FLY-188



FLY-189



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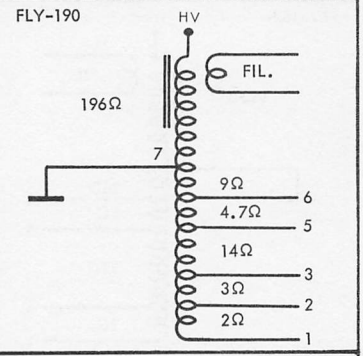
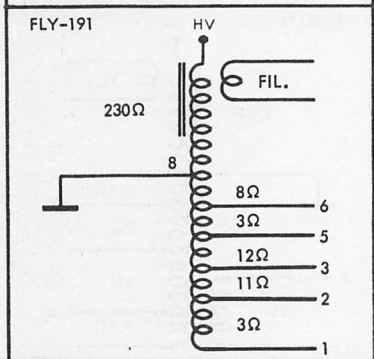


FLY-191



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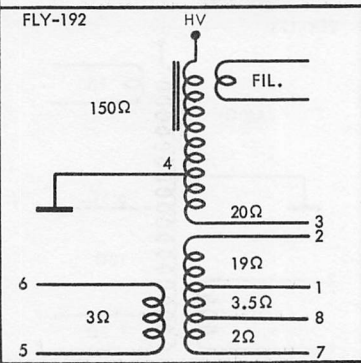
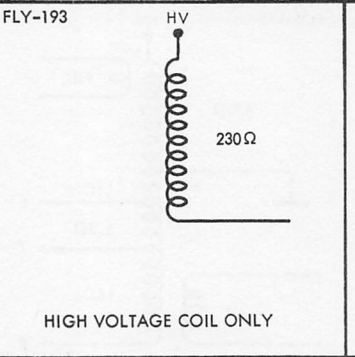


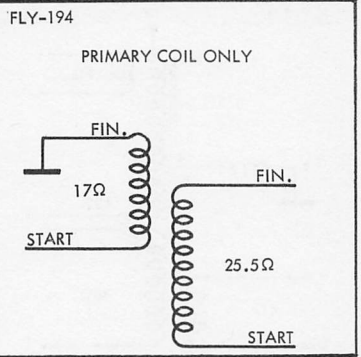
FLY-193



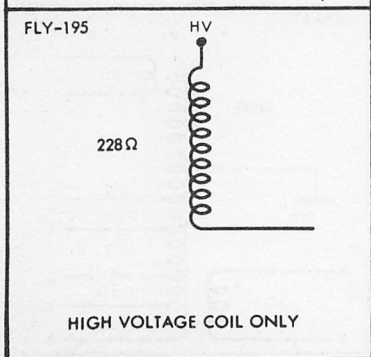
HIGH VOLTAGE COIL ONLY

FLY-194

PRIMARY COIL ONLY

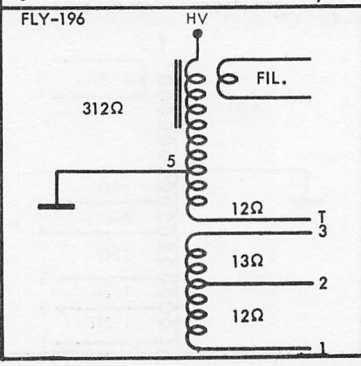


FLY-195

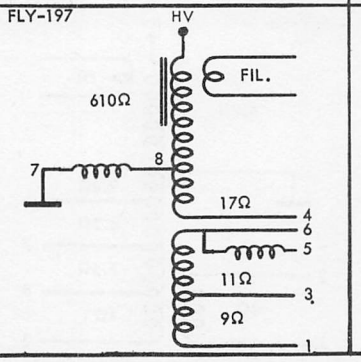


HIGH VOLTAGE COIL ONLY

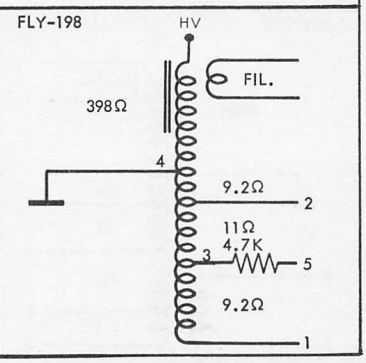
FLY-196



FLY-197



FLY-198



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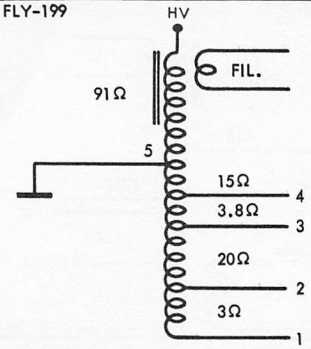
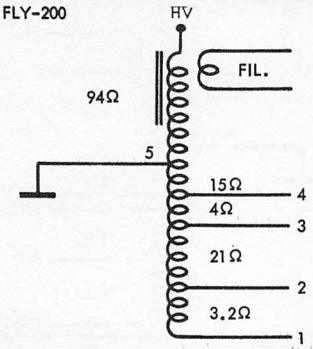
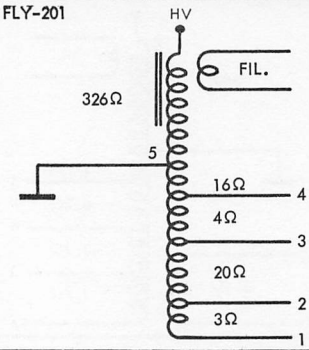
FLY-199



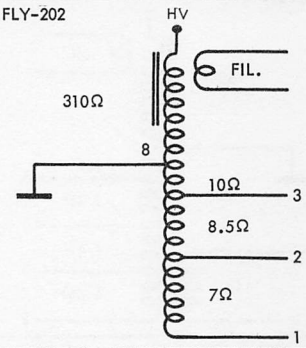
FLY-200



FLY-201



FLY-202



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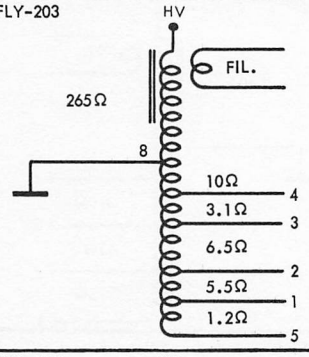

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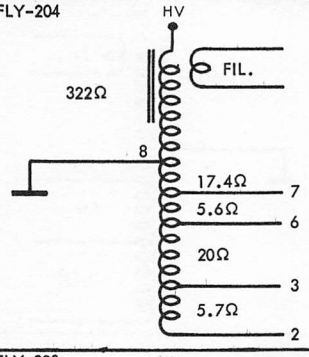

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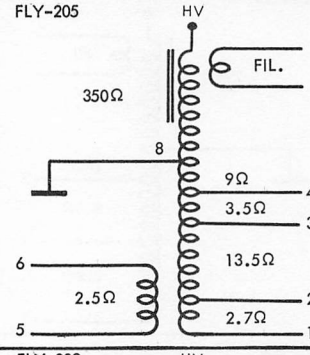

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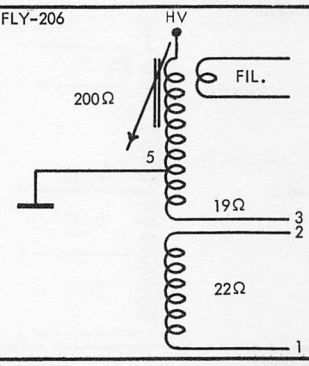

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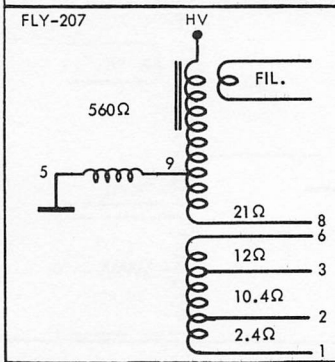

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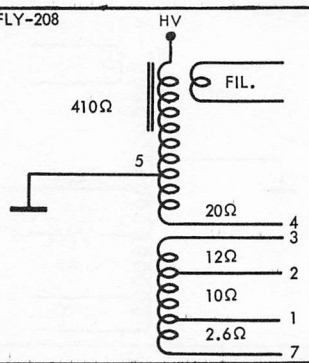

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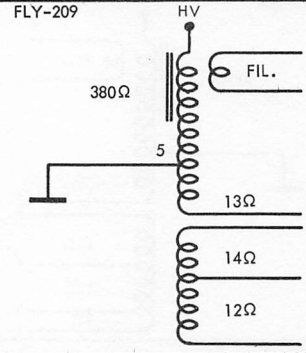

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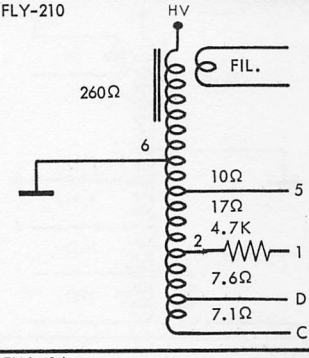

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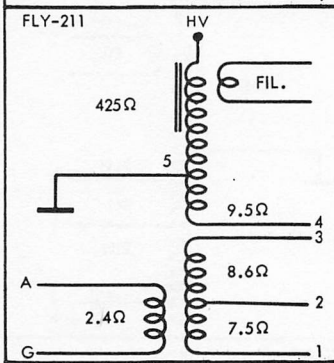

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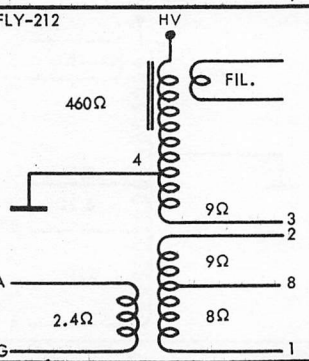

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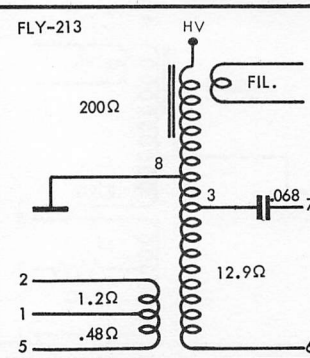

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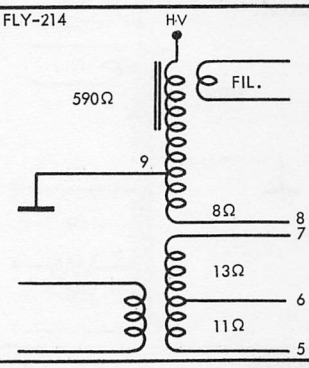

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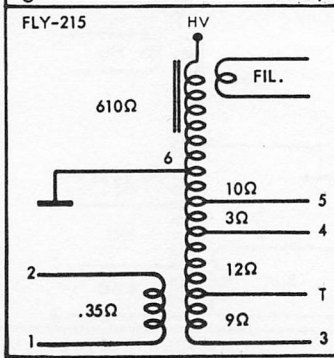

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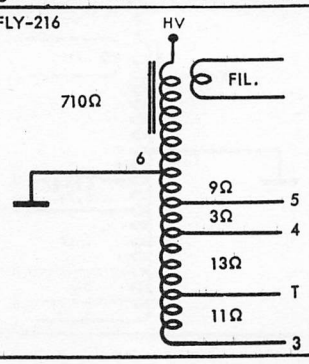

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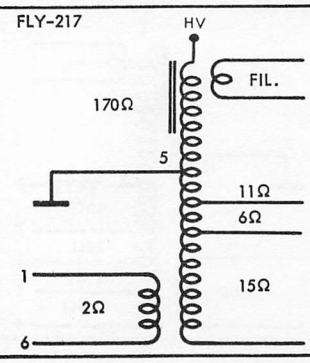

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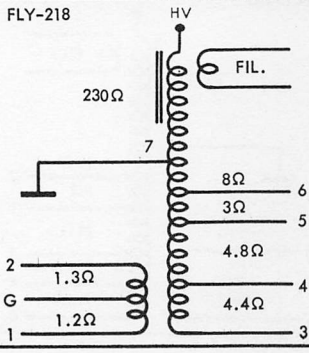

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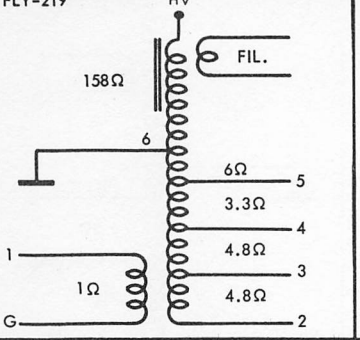
Flybacks

FLY-219



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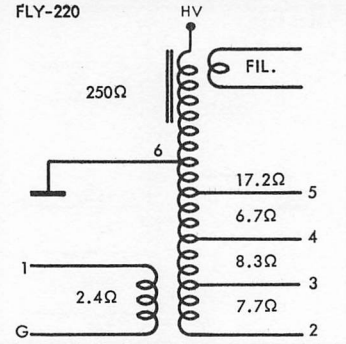

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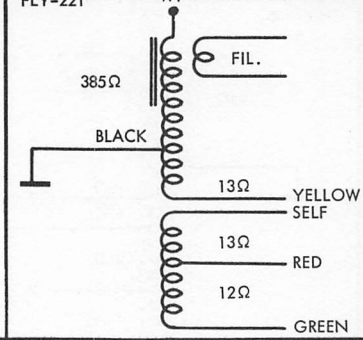

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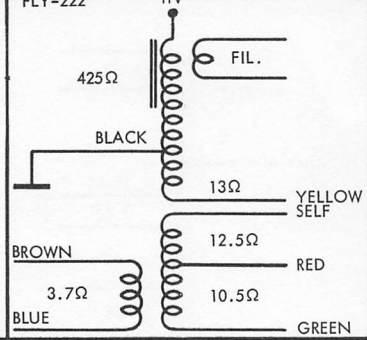

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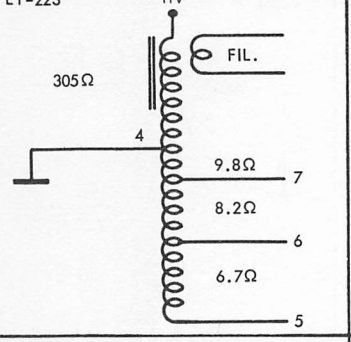

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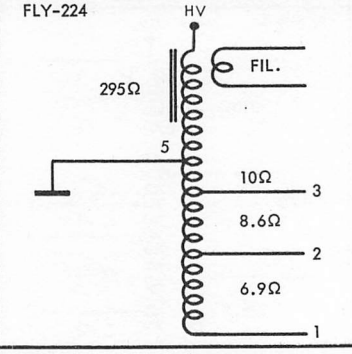

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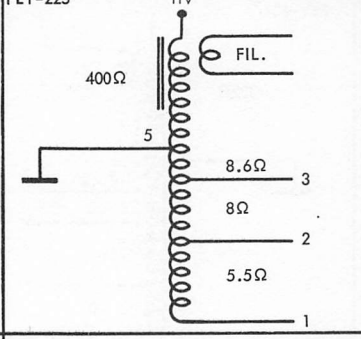

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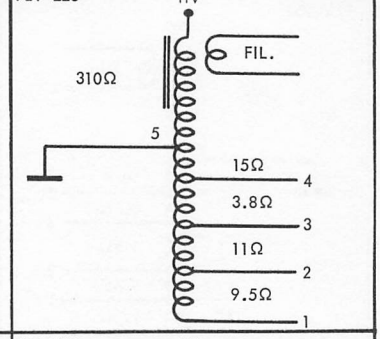

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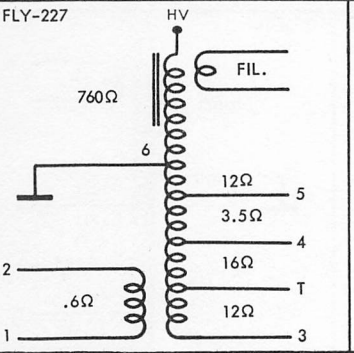

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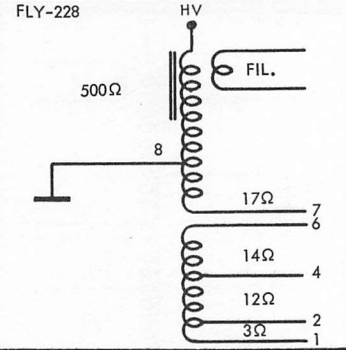

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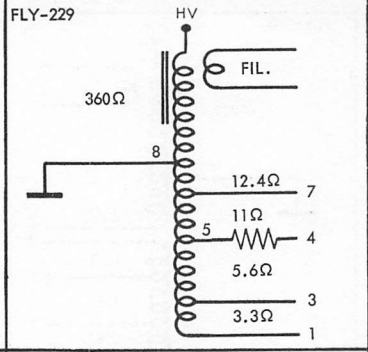

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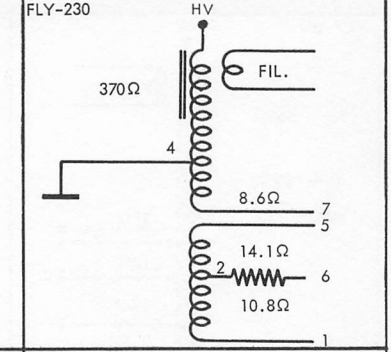

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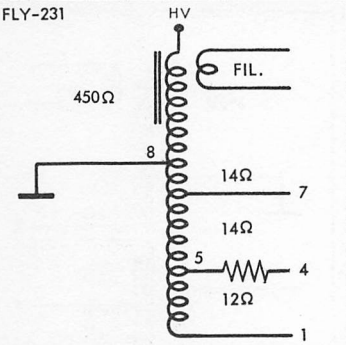

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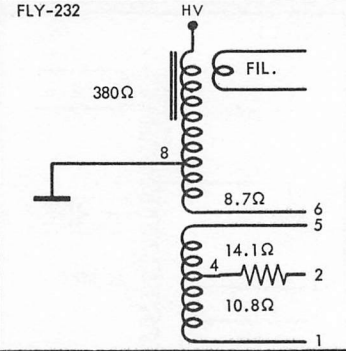

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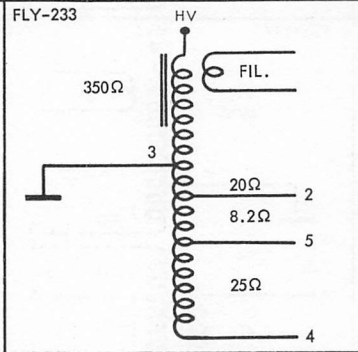

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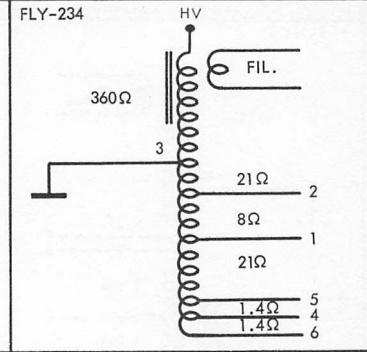

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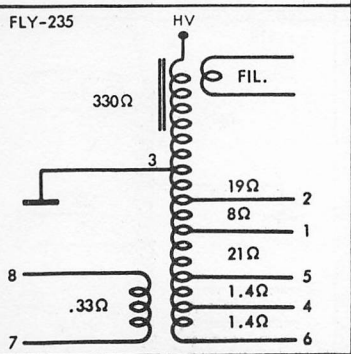

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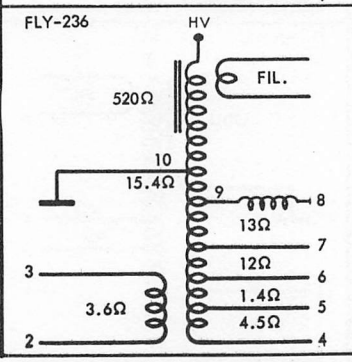

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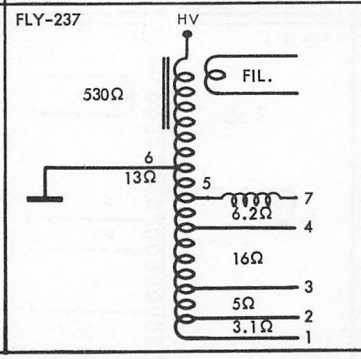

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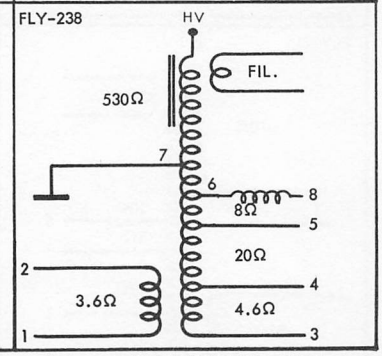

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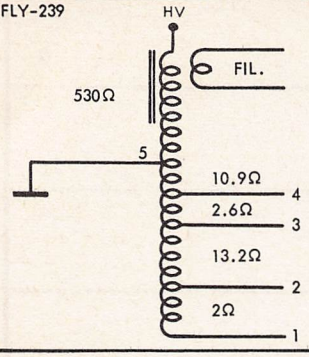

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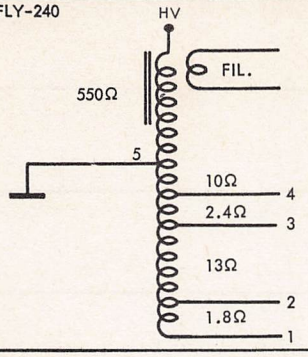

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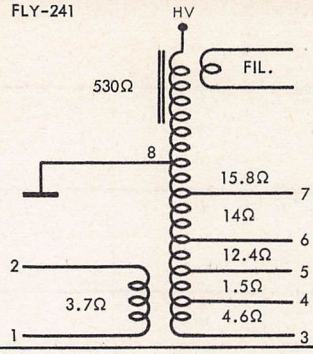

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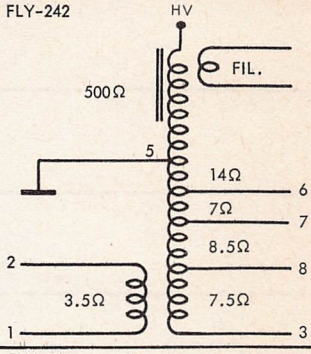

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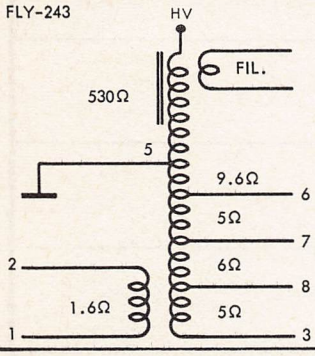

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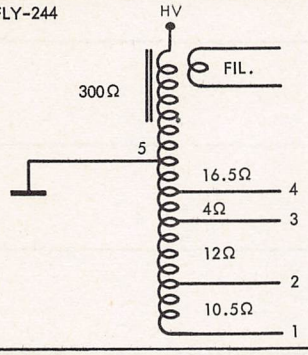

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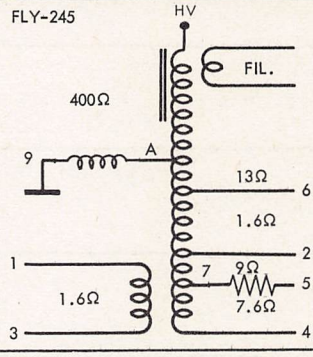

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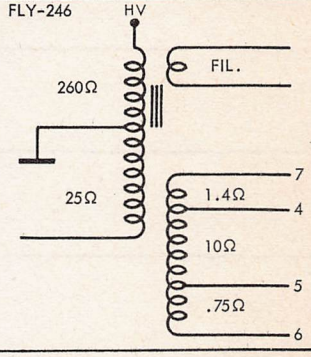

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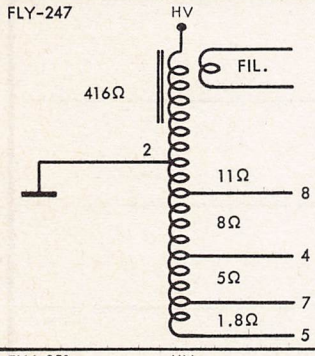

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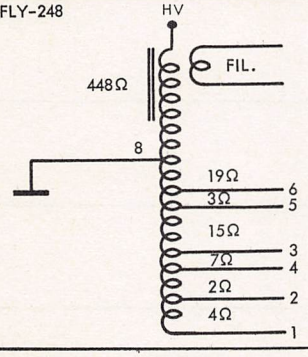

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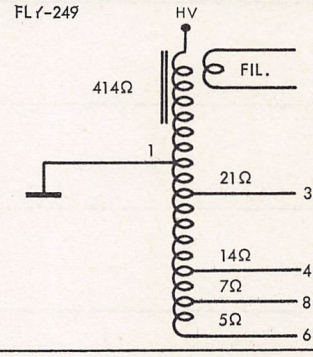

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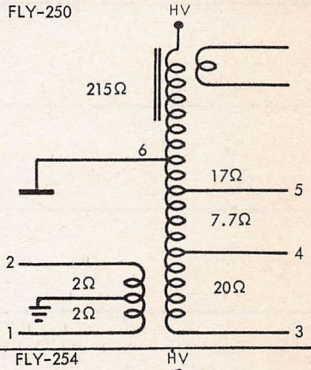

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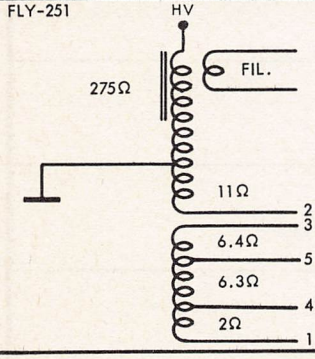

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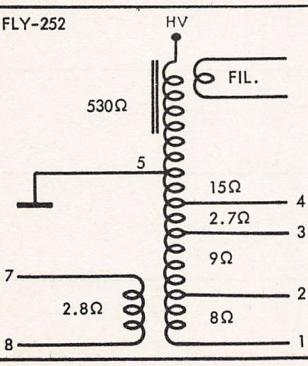

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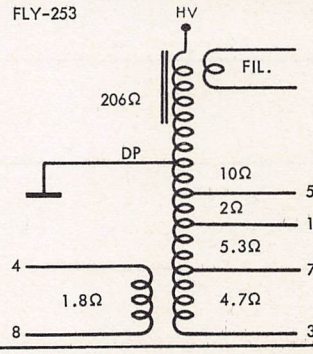

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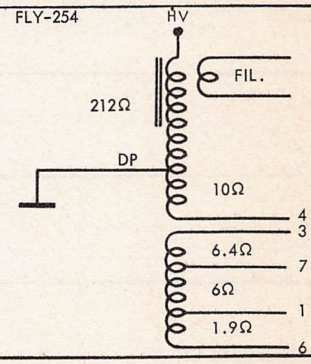


NOTES

Deflection Yokes

ALL YOKES HAVE LEADS AND NETWORK INSTALLED – COSINE WOUND FOR ANTI-ASTIGMATIC FOCUSING.

Yokes Y-1 through Y-13 are 3 1/8 dia. x 2 3/4 long, Y-14, Y-15, Y-16 are 3 1/8 dia. x 3 1/8 long
Y-17 through Y-64 are exact replacements.

Part No.	Application	Inductance (M.H.)		Resistance		Scan
		Horizontal	Vertical	Horizontal	Vertical	
Y-1	Multi-Purpose	8.3	50	14	68	50
Y-2	Multi-Purpose	8	48	15	68	50
Y-3	Multi-Purpose	8.3	50	13.5	64.6	53
Y-4	Multi-Purpose	13.3	41	23.5	48	70
Y-5	Multi-Purpose	8.4	55	11.5	70	70
Y-6	Multi-Purpose	10.3	36	13.5	48.7	70
Y-7	Multi-Purpose	13.3	41	23.5	48	70
Y-8	Multi-Purpose	30	48	45	63	70
Y-9	Multi-Purpose	17	44	20	60	70
Y-10	Multi-Purpose	20	40	28	50	70
Y-11	Multi-Purpose	25	3.3	27	4	70
Y-12	Multi-Purpose	30	45	45	60	70
Y-13	Multi-Purpose	30	3.5	45	3.5	70
Y-14	Multi-Purpose	12	41	14	44	90
Y-15	Multi-Purpose	30	42	50	44	90
Y-16	Multi-Purpose	19	43	30	50	90
Y-17	RCA	30	3.6	43	3.5	70
Y-18	Motorola	25	45	45	60	70
Y-19	Sylvania	14	36	20	50	70
Y-20	Motorola	20	38	32	50	90
Y-21	GE	12	44	15	45	90
Y-22	Sylvania	20	43	29	49	70
Y-23	Sylvania	20	43	29	50	70
Y-24	RCA	14	3.3	24	3.3	70
Y-25	RCA	20	39	29	39	90
Y-26	Crosley-Airline	20	40	29	44	90
Y-27	GE	15	30	32	58	70
Y-28	GE	50	39	118	86	70
Y-29	GE	50	22	115	60	70
Y-30	GE	35	13	79	30	70
Y-31	GE	44	41.5	110	68	70
Y-32	GE	12	42	28	72	70
Y-33	GE	12	42	30	68	70
Y-34	GE	15	47	20	40	90
Y-35	Motorola	26	3.0	38	3.0	70
Y-36	Motorola	26	3.0	38	3.0	70
Y-37	Motorola	26	3.0	38	3.0	70
Y-38	Motorola	24	3.2	30	3.5	90
Y-39	Zenith	13	42	24	50	90
Y-40	Philco	30	40	40	46	70
Y-41	Dumont	19	40	26	46	70
Y-42	RCA	13.3	40	20	45	70
Y-43	Philco	31	42	44	45	90
Y-44	Muntz	20	3.6	26	3.8	90
Y-45	Motorola	25	39	32	46	90
Y-45	RCA-Sylvania	31	34	72	35	110
Y-47	RCA	18.6	14.8	35	17.7	110
Y-48	RCA	17.3	14.8	34	13.8	110
Y-49	Emerson	24	11	40	10	90
Y-50	RCA	18.5	11	27	10	90
Y-51	GE	12	40	17	44	110
Y-52	Admiral	18.6	33	14.8	14	110
Y-53	Westinghouse	19	35	34	34	110
Y-54	Motorola	25	43	39	41	90
Y-55	Zenith	16	40.5	25.5	40.5	110
Y-56	Westinghouse	21	35	35	36	90
Y-57	Philco	21	45	28.3	41	90
Y-58	Philco	23	40	39	36	110
Y-59	Philco	24	40	39	32	110
Y-60	Emerson	24	38	38	37	90
Y-61	Emerson	20	44	28	40	90
Y-62	Emerson	23	34	40	32	110
Y-63	Admiral	18	14.2	36	16.8	110
Y-64	Admiral	18	14.2	36	16.8	114

Yokes

THIS PAGE HAS BEEN PREPARED FOR YOUR CONVENIENCE TO SHOW SOME POPULAR USES FOR PART OF OUR YOKE LINE.

MFR'S. PART	REPLACEMENT
Admiral	
A3222	Y-6
A3178/97	Y-6
94B2/-1/-2	Y-3
94B24-1/-2	Y-3
94C30-1	Y-4
94C30-3	Y-6
94C51-1/-3	Y-10
94C54-1	Y-14
94C73-3	Y-16
94C74-5/-6	Y-16
94D74-1/-2	Y-14
94D74-5/-6	Y-16
94D147-1/-2/-3	Y-52
94D150	Y-52
94D150-4	Y-63
94D172-1	Y-63
94D187-2/-2C	Y-63
94D189-2/-4	Y-64
Airline	
AD1584261-2	Y-26
B13H19488	Y-3
B13M-13590	Y-3
B13M-19488	Y-1
C9-209	Y-3
C9-242	Y-5
9A1987	Y-3
9A2048	Y-3
9A2106	Y-3
9A2193/-4/-5	Y-7
9A2371-1	Y-16
9A2373-1	Y-16
30E141-2	Y-3
53B140	Y-3
201-10940	Y-5
201-21130	Y-5
MW22E788-2	Y-13
MW30E164/2/ -5/-6/-7	Y-7
MW30E168	Y-5
MW30E176	Y-5
490V005M01	Y-16
496V003M06	Y-16
Capehart	
38986	Y-3
750155A-G1	Y-13
750155B/C	Y-13
750192D-3	Y-13
850247B-1	Y-11
Coronado	
9A1987	Y-3
9A2048	Y-3
9A2080	Y-7
9A2106	Y-3
9A2255	Y-7
13M-23755	Y-5
53A180	Y-3
53B140	Y-3
B13M-13590	Y-3
B13M-18888	Y-5
C201-19490	Y-5
DY-12-M	Y-7
83-650	Y-3
Crosley	
158420-1/-4	Y-26
158420-1-2	Y-26
158426-1/-2	Y-26
158426-1-17	Y-26
158426-2	Y-26
172388-1-4F	Y-26
AB144904	Y-3
AB146321	Y-3
AB146996	Y-3
AB147445	Y-3
AB147560	Y-3
AB147631	Y-3
AB148145	Y-3
AB160455	Y-3
AC145571	Y-3
AC148887-3/-5	Y-5
AC-148887-6 -7/-11	Y-5
AC160569	Y-3
W139200	Y-3

MFR'S. PART	REPLACEMENT
Dumont	
21004241	Y-5
21004243	Y-3
21004971	Y-5
21005541	Y-5
21005711	Y-6
21005711B	Y-6
21006091	Y-6
21006191	Y-6
21006641	Y-6
21006926	Y-6
21008871	Y-5
21009961	Y-4
21009462	Y-5
21011061/62	Y-41
21011742	Y-41
21013881	Y-16
87000021	Y-5
87000031/41	Y-6
87000051	Y-5
87000061	Y-3
87000201	Y-5
89012702	Y-41
89013321	Y-41
89013333	Y-14
89014092	Y-16
21-338	Y-3
Emerson	
708030	Y-3
708036	Y-3
708043	Y-13
708073	Y-13
708117	Y-13
708122	Y-6
708130/-L/-R	Y-3
708131/35	Y-13
708150	Y-13
708288	Y-49
708313	Y-61
708322	Y-61
708330	Y-62
708332	Y-61
708344	Y-62
708348	Y-62
708353	Y-60
708373	Y-60
708381	Y-60
Firestone	
A28278-3	Y-5
A28302-1	Y-5
A28302-1E	Y-5
A28322-1	Y-5
A28330	Y-5
PB28278-3	Y-5
PC28278-3	Y-5
PC28302-1	Y-5
TTR159-D	Y-3
508675	Y-6
2E80	Y-3
9A2327-2	Y-4
General Electric	
RLD-025	Y-27
RLD-037	Y-28
RLD-039	Y-29
RLD-040	Y-30
RLD-041	Y-30
RLD-042	Y-31
RLD-045	Y-30
RLD-047	Y-31
RLD-052	Y-32
RLD-059	Y-34
RLD-067	Y-32
RLD-068	Y-33
RDL-069	Y-21
RLD-073	Y-33
RLD-075	Y-33
RLD-080	Y-51
Hallicrafters	
53A180	Y-3
53A190	Y-5
53A212	Y-12
53A271	Y-11
53B140	Y-3
53B190	Y-5

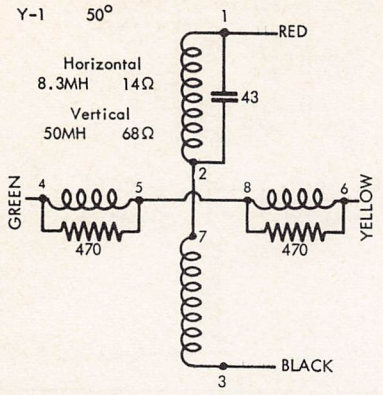
MFR'S. PART	REPLACEMENT
53C186	Y-6
53C201	Y-7
53C203C	Y-12
53C218	Y-12
55B140	Y-3
Hoffman	
5389	Y-18
9714	Y-7
9723	Y-11
9129	Y-10
T5216	Y-3
Hotpoint	
RLD-073	Y-33
RLD-075	Y-33
Magnavox	
320462-1	Y-6
360330-1/-5	Y-3
360330-7	Y-5
360330-9	Y-3
360384-1	Y-3
360462-1/-4	Y-6
360462-5/-6/ G-1	Y-6
360464	Y-6
360496-1	Y-6
360515-1/-2	Y-6
361222-1	Y-16
Motorola	
24C90118	Y-3
24C700050	Y-18
24C701600	Y-6
24C701601/-9	Y-6
24C701611/-12	Y-6
24C702655	Y-35
24C702958	Y-35
24C703260/B	Y-35
24C711217	Y-35
24C711236	Y-35
24C720154	Y-35
24C730632	Y-36
24C730633	Y-11
24C730634	Y-36
24C733411	Y-37
24C733436	Y-37
24C734459	Y-37
24C735763	Y-37
24C792171	Y-18
24C792506	Y-18
24C792699	Y-6
24C792714	Y-6
24D733239	Y-38
24D736445	Y-45
24D736978	Y-45
24D739275	Y-54
24D739276	Y-54
24D740942	Y-54
24D743765/AE	Y-54
24D744084	Y-54
24D744322	Y-54
24K485474	Y-3
24K485475	Y-3
24K485476	Y-3
24K700694	Y-18
24K700714	Y-18
24K700774	Y-18
24K700776	Y-18
24K700778	Y-18
24K701136	Y-18
24K701138	Y-18
24K701139	Y-18
24K701141	Y-18
24K701142	Y-18
24K701610	Y-6
24K702039	Y-18
24K702040	Y-6
24K702657	Y-11
24K703239	Y-6
24K703240	Y-6
24K703262	Y-35
24K711268	Y-35
24K711581/-3/ -4/-5/-7	Y-35
24K720155	Y-35
24K720622	Y-11
24K721831	Y-35
24K730633	Y-36

MFR'S. PART	REPLACEMENT
24K732710	Y-37
24K732711	Y-37
24K732811	Y-37
24K733239B	Y-20
24K735873	Y-38
24K744322	Y-54
24K746446	Y-54
24K747492	Y-54
24K747493	Y-54
24K780549	Y-3
24K791181	Y-8
24K792173	Y-18
24K792508	Y-18
24K792714	Y-6
24K792756	Y-18
Muntz	
LC-46	Y-3
LC-48	Y-5
LC-51	Y-5
LC-0046	Y-3
LC-0048	Y-5
LC-0051	Y-5
LC-0053	Y-5
LC-0056	Y-5
LC-0058/-1/-2	Y-7
LC-0060	Y-7
LC-0085-1	Y-44
C9-254-3	Y-7
Packard Bell	
29501	Y-3
29530	Y-6
29533	Y-13
29536	Y-13
29537	Y-13
Philco	
32-8633	Y-6
32-9648	Y-40
32-9670/80	Y-40
32-9689/-1	Y-43
32-9731	Y-59
76-9173-2	Y-43
76-9173-3	Y-40
76-9173-8/-6/ -10	Y-43
76-9173-9	Y-40
76-9173-14	Y-57
76-10282-1/-2/ -3/-4/-5	Y-58
76-10508-3/-6/ -9	Y-59
Raytheon	
B13M-13590	Y-3
B13M-18693	Y-5
B13M-19488	Y-3
C201-21524	Y-5
D13M-25738	Y-16
201-19947-1	Y-5
201-20936	Y-5
RCA	
71420	Y-3
71777	Y-3
74141	Y-3
74262	Y-3
74952	Y-17
75204	Y-13
76136	Y-13
76612	Y-42
76653	Y-24
77625	Y-42
77695	Y-7
77697	Y-42
78278	Y-24
100586	Y-25
101147	Y-25
103114	Y-50
103830	Y-46
104078	Y-47
104309	Y-50
104369	Y-50
104408	Y-47
104482	Y-48
105053	Y-47
970669-1	Y-11
970690-1	Y-13

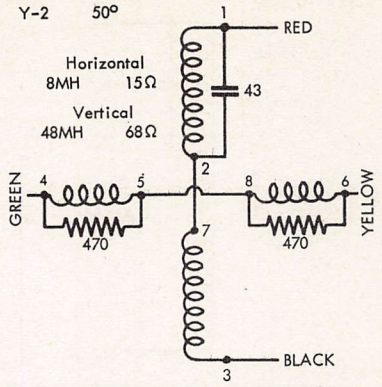
MFR'S. PART	REPLACEMENT
971385-1-2	Y-42
971385-1-2-3	Y-42
971385-3	Y-42
971386-2	Y-42
971387-3	Y-24
971736-1	Y-42
971736-2	Y-42
971744	Y-24
972459-1/-3/ -4	Y-25
972913-1/-2	Y-50
972958-2	Y-47
972958-3	Y-48
972958-4/-5	Y-47
51-88332-1	Y-46
51-94416-1	Y-46
Sentinel	
2E80	Y-3
2E115	Y-5
20E932-2	Y-14
20E1251-2	Y-16
30E141-2/-3	Y-3
30E164/-2	Y-5
30E164-2/-3	Y-5
30E164-4/-5/ -7	Y-5
30E168/176	Y-5
360660	Y-16
361212-2	Y-16
Silvertone	
A28261	Y-3
A28278-2/-3	Y-5
A28301-3	Y-15
A28302-1E	Y-5
A28317-3	Y-5
A28322-1	Y-5
A28330	Y-5
M53A180	Y-3
M53C194	Y-3
M53C195	Y-5
M53C202	Y-5
M53C203	Y-12
M53C217	Y-12
N23817	Y-9
PB23802-1/-E	Y-5
PC28278	Y-5
PC28330	Y-5
R65461	Y-3
T82-694	Y-5
T83-669	Y-5
T83-694	Y-5
TTR-159-D	Y-3
TTR-201-D	Y-5
TTR-217-D	Y-12
TTR-220-D	Y-5
TTR-223-D	Y-5
TTR-227-D	Y-12
TTR-242-D	Y-5
TTR-252-D	Y-5
W507791	Y-3
W508675	Y-6
YD-10001	Y-6
YDB10000A	Y-6
10-692	Y-10
10-699	Y-10
Sonora	
H-6922	Y-3
H-8057	Y-5
R-1421	Y-10
R-1948	Y-14
Sparton	
AB43070-2	Y-5
AB43525-1/-2/ -3	Y-8
PC70002	Y-8
PC70003	Y-12
PC70004	Y-4
PC70009	Y-6
PC70009C	Y-6
PC70011	Y-5
PC70013	Y-5
PC70016/-A/ -1	Y-6
PC70017	Y-5
PC70031	Y-10

MFR'S. PART	REPLACEMENT
Sylvania	
5192A-1	Y-10
100-0003	Y-19
100-0004	Y-22
100-0005/-6/ -7	Y-19
100-0009	Y-23
100-0011/-13	Y-14
100-0030	Y-10
100-0031	Y-46
100-0032	Y-46
Truetone	
B13M13590	Y-3
C9209	Y-3
9A1987	Y-3
9A2048	Y-3
9A2069	Y-3
9A2080	Y-7
9A2105	Y-5
9A2115/-9	Y-5
53A180	Y-3
53B140	Y-3
53B190	Y-6
64T4	Y-6
201-19490	Y-5
Wells Gardner	
9A2080	Y-7
9A2106	Y-3
9A2149	Y-5
9A2194	Y-7
9A2255	Y-7
9A2256	Y-6
9A2261	Y-7
9A2274	Y-6
Westinghouse	
V-6073	Y-3
V-6486-1	Y-8
V-6486-2/-4	Y-12
V-6486-3	Y-8
V-6612	Y-3
V-8201	Y-3
V-8298	Y-12
V-9210-2	Y-8
V-9210-3	Y-12
V-9596-1	Y-12
V-10045-1	Y-6
V-10045-3	Y-5
V-10045-4	Y-6
V-10046	Y-5
V-10049-1/-2	Y-5
V-10538-1/-6	Y-6
V-10538-7	Y-6
V-10911-1	Y-6
V-10911-3/-4	Y-6
V-11045-3/-5	Y-5
V-11049-5	Y-5
490V006H01	Y-53
490V004H01	Y-56
490V004M01	Y-56
496V003H07	Y-53
Zenith	
95-1110	Y-3
95-1165	Y-3
95-1198	Y-7
95-1217	Y-3
95-1241	Y-7
95-1246	Y-7
95-1263/-7	Y-7
95-1292	Y-7
95-1297/-E	Y-7
95-1306/-7	Y-7
95-1335/-7	Y-7
95-1357/-8	Y-7
95-1359	Y-14
95-1443	Y-39
95-1448	Y-39
95-1509	Y-39
95-1546	Y-39
95-1695	Y-55

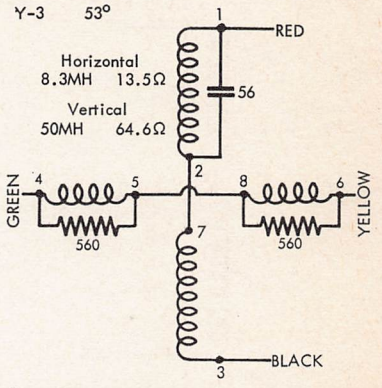
Y-1 50°



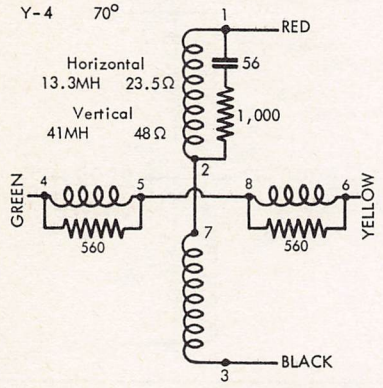
Y-2 50°



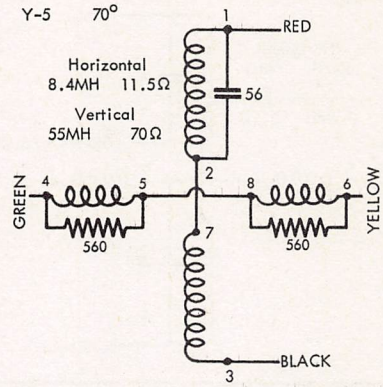
Y-3 53°



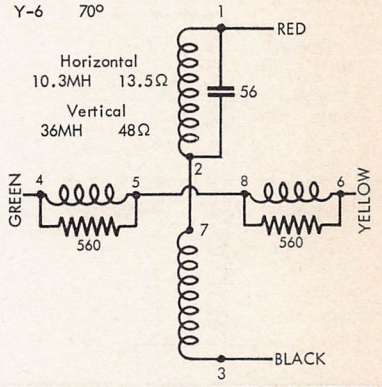
Y-4 70°



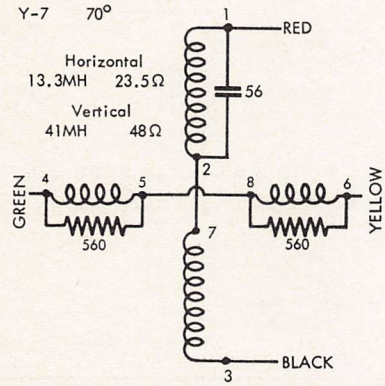
Y-5 70°



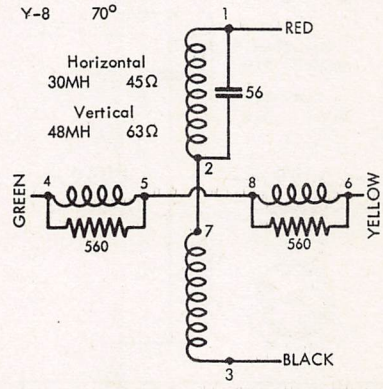
Y-6 70°



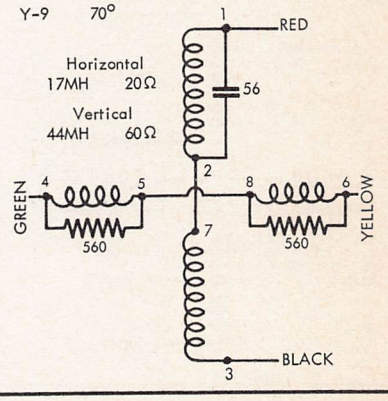
Y-7 70°



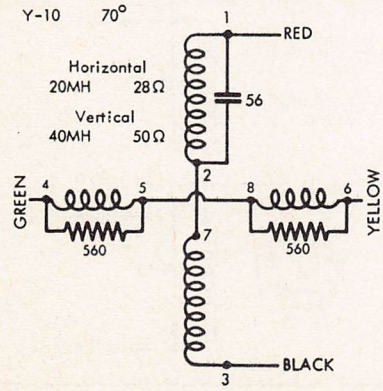
Y-8 70°



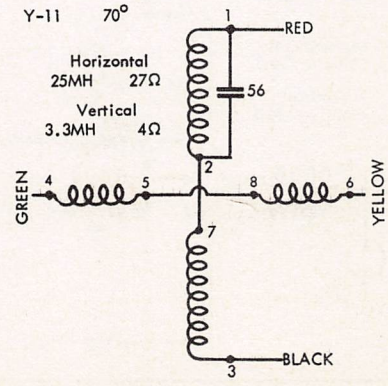
Y-9 70°



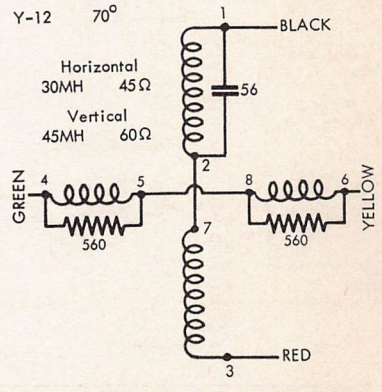
Y-10 70°



Y-11 70°



Y-12 70°



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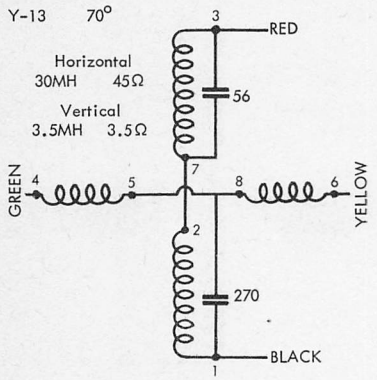
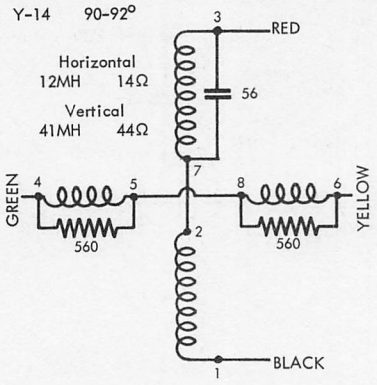
Yokes

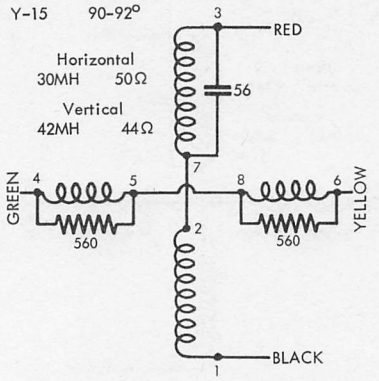
Y-13 70°



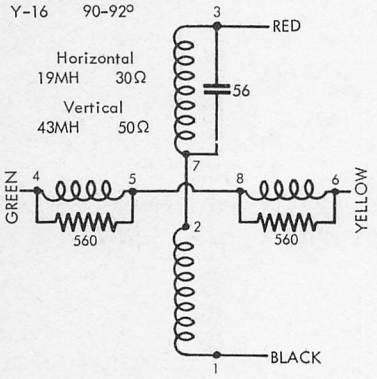
Y-14 90-92°



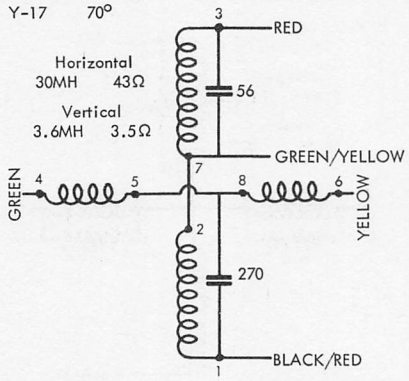
Y-15 90-92°



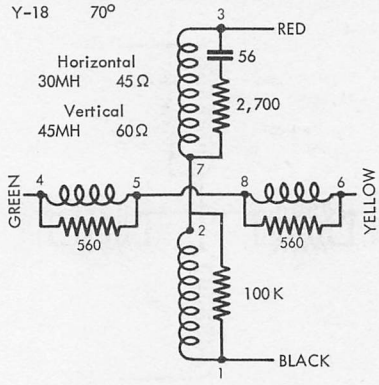
Y-16 90-92°



Y-17 70°



Y-18 70°



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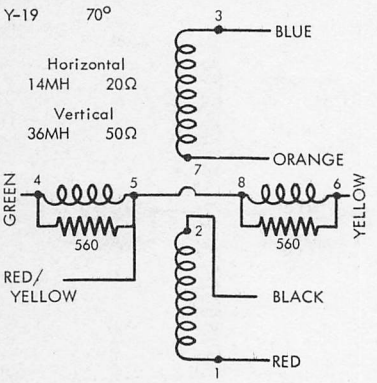
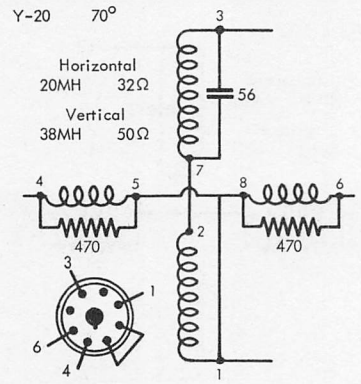


Y-20 70°



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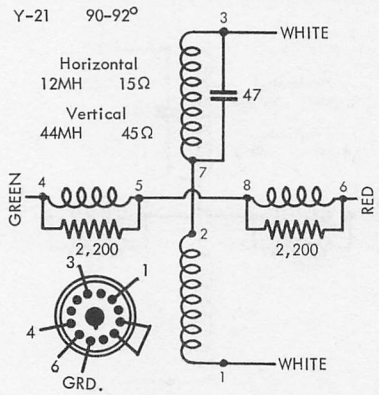
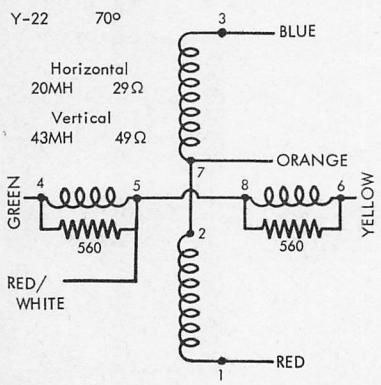
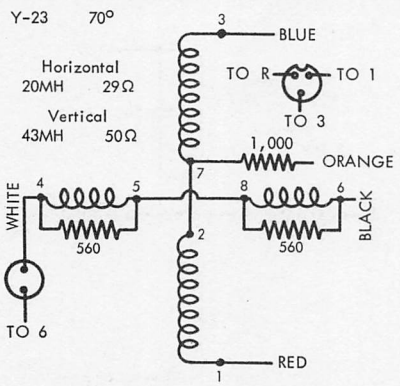


Y-22 70°



Y-23 70°



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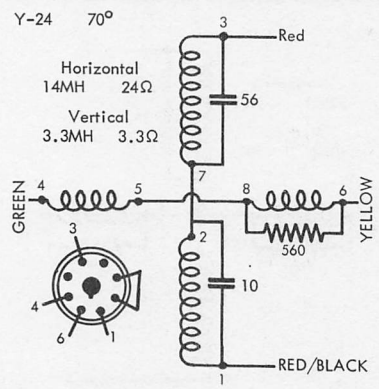

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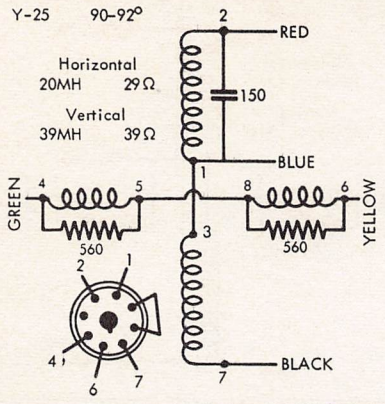
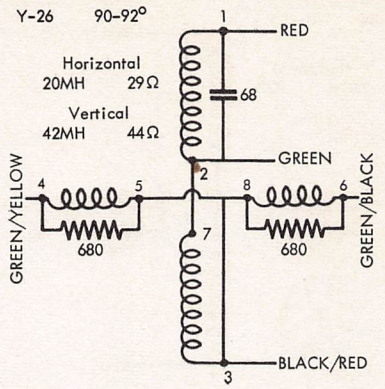
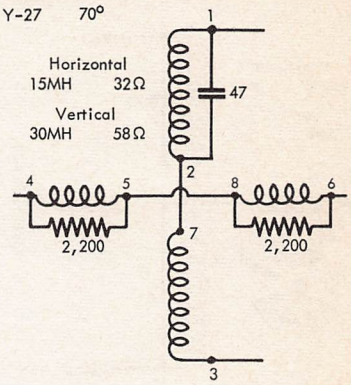
Y-25 90-92°



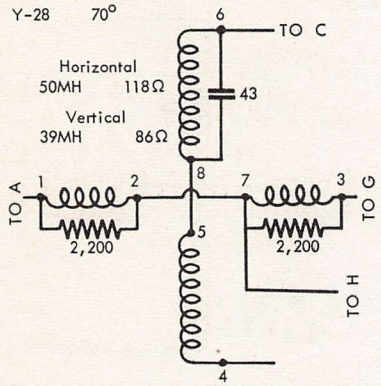
Y-26 90-92°



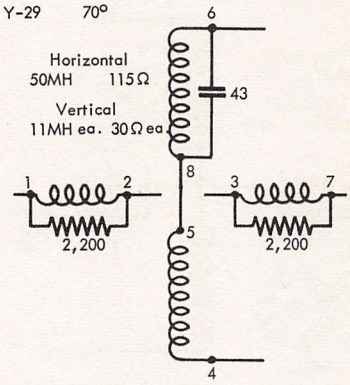
Y-27 70°



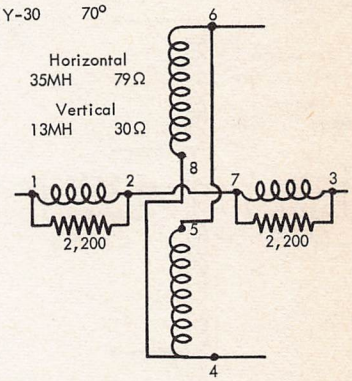
Y-28 70°



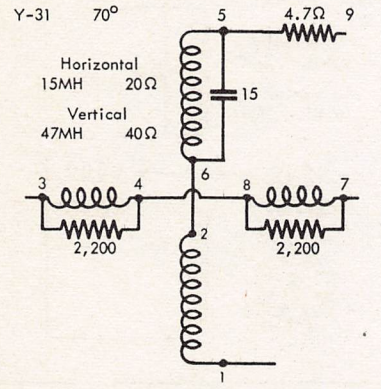
Y-29 70°



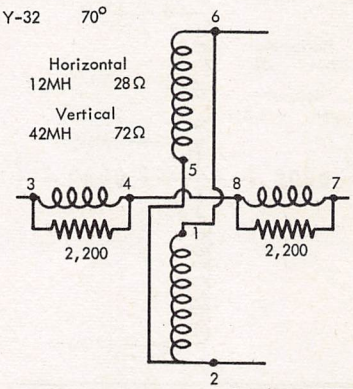
Y-30 70°



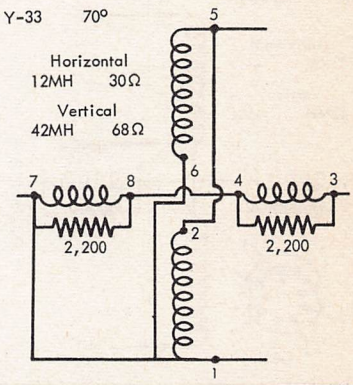
Y-31 70°



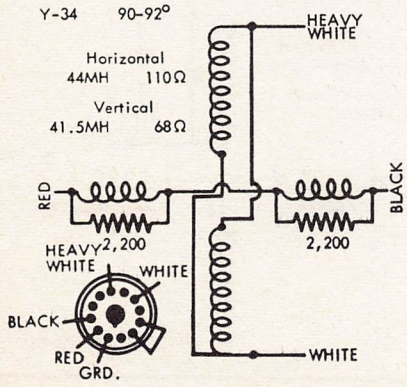
Y-32 70°



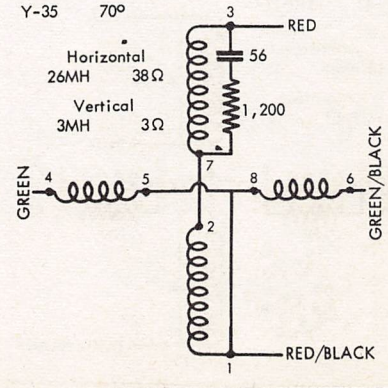
Y-33 70°



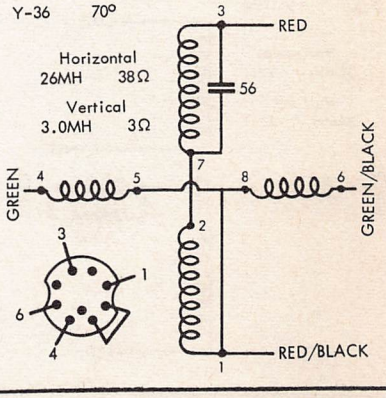
Y-34 90-92°



Y-35 70°



Y-36 70°



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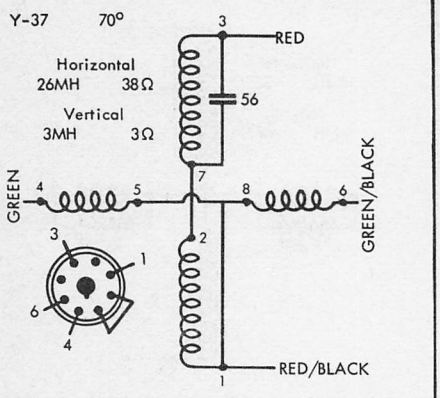

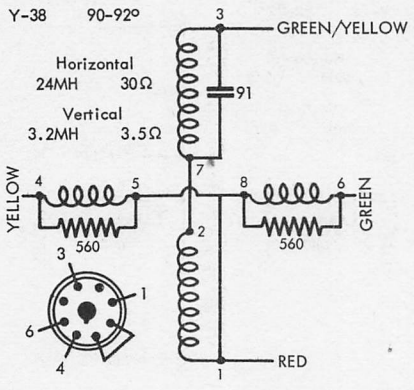

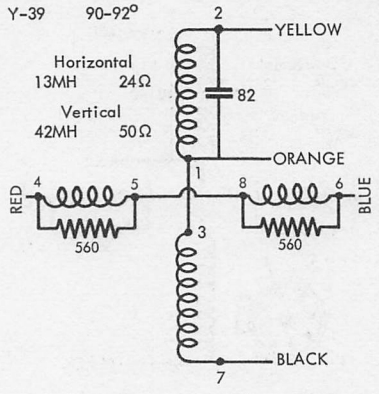

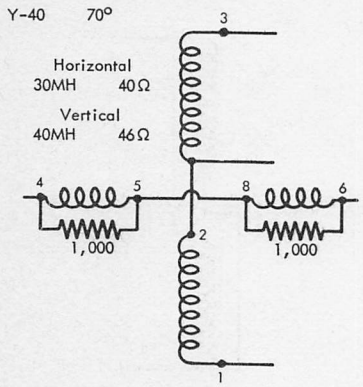

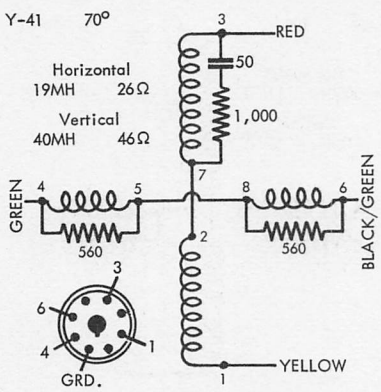

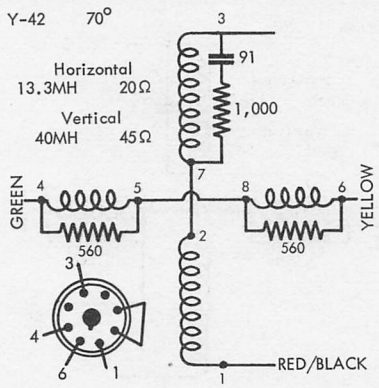

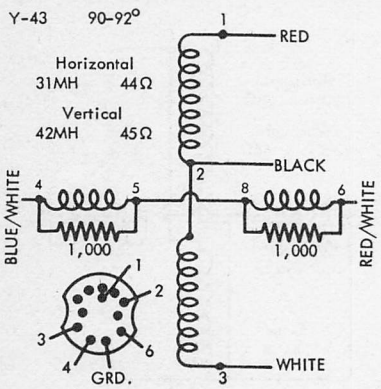

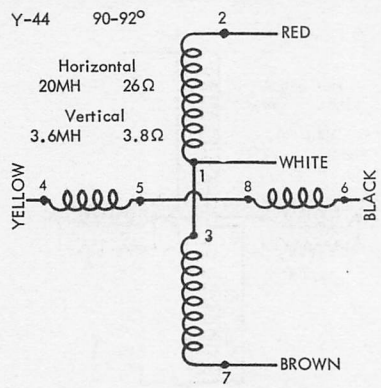

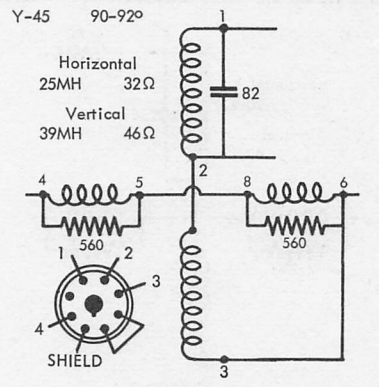

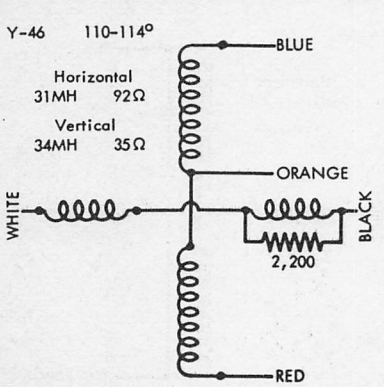

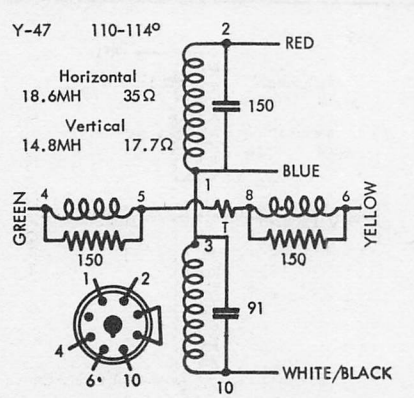

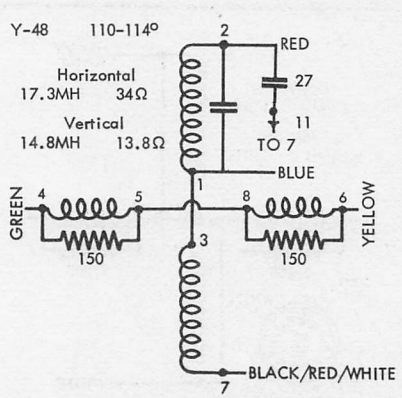

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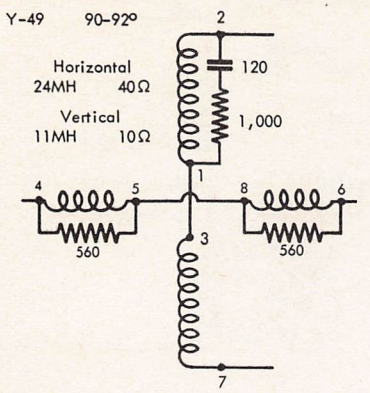
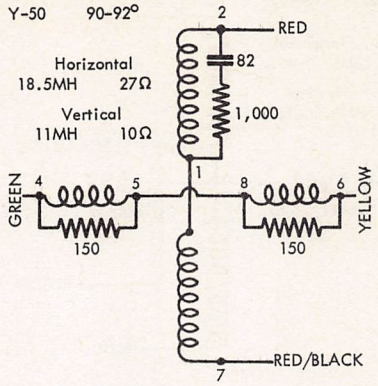
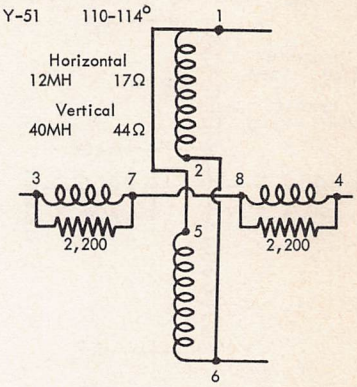
Y-49 90-92°



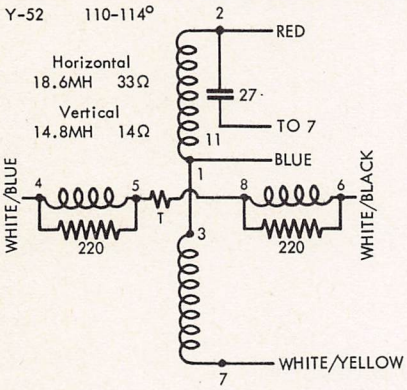
Y-50 90-92°



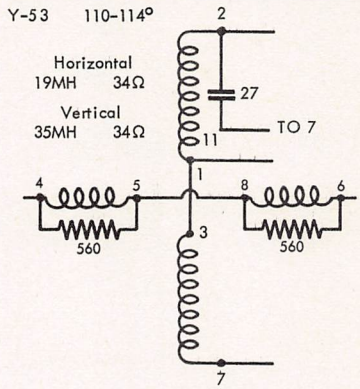
Y-51 110-114°



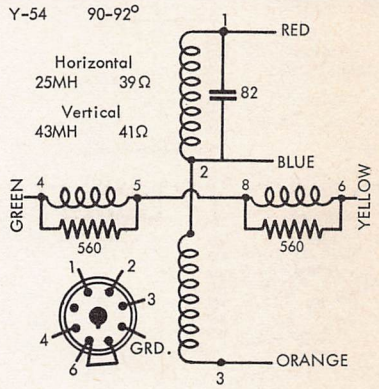
Y-52 110-114°



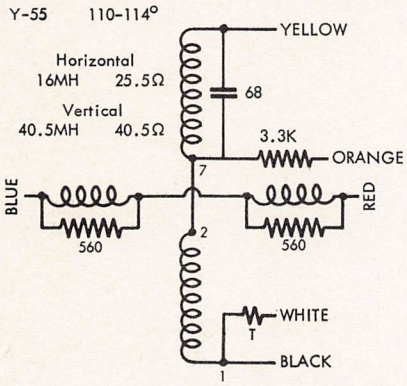
Y-53 110-114°



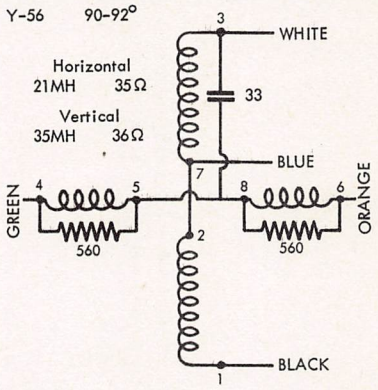
Y-54 90-92°



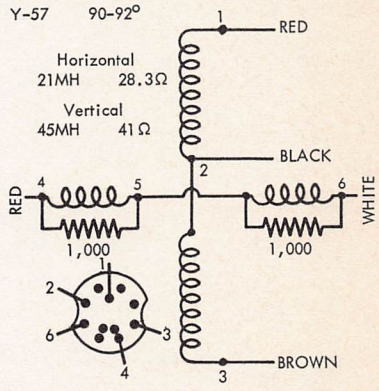
Y-55 110-114°



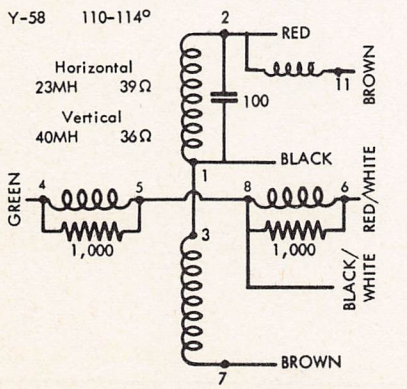
Y-56 90-92°



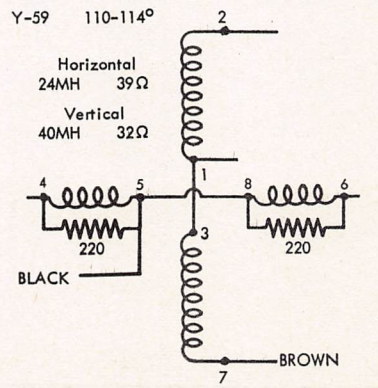
Y-57 90-92°



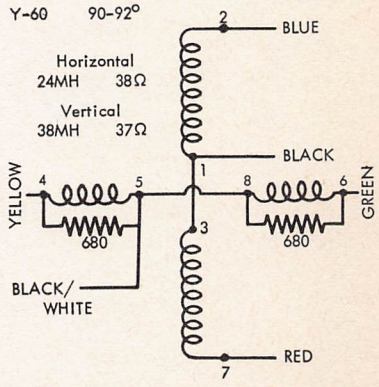
Y-58 110-114°



Y-59 110-114°



Y-60 90-92°



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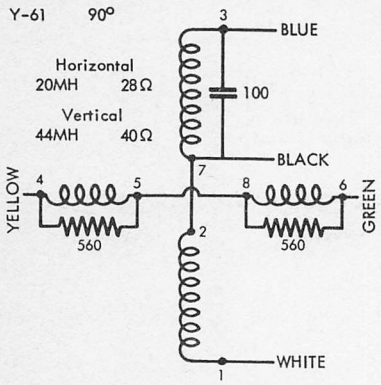
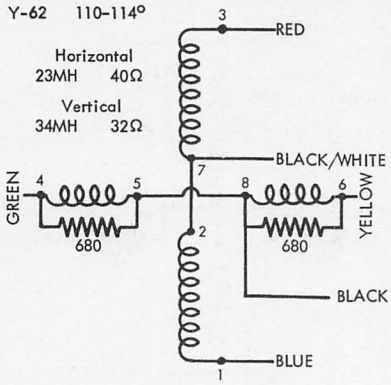
Yokes

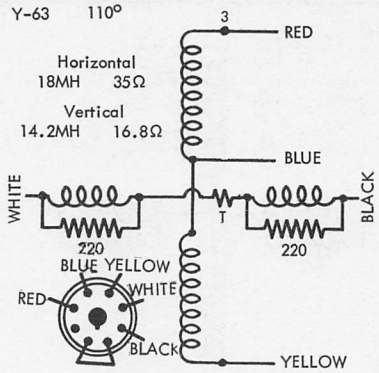
Y-61 90°



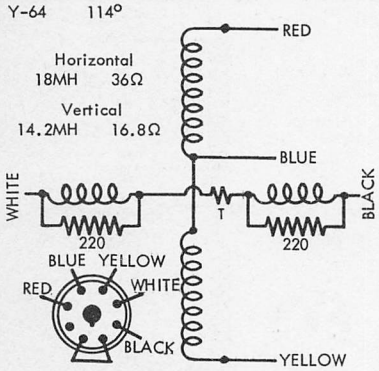
Y-62 110–114°



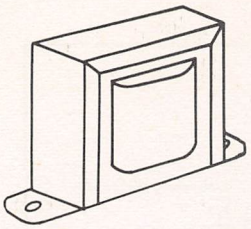
Y-63 110°



Y-64 114°



Vertical Outputs



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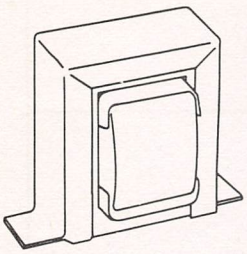

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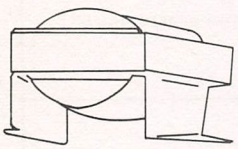
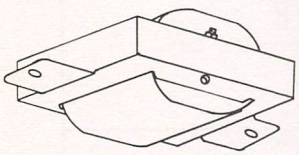


CAF-1



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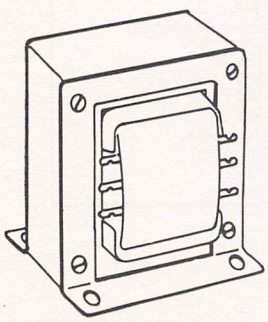


CAV

Vertical Deflection Output Transformers

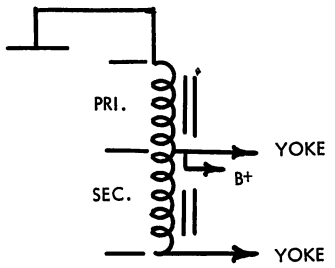
Part No.	Turns Ratio	Schematic Δ	Primary Impedance	Resistance Primary	Resistance Secondary	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26S10	2.8:1 21:1§	12	6,000 @ 20MA	164	105 .63	BAH	3 1/8	2 1/4	3 5/8	2	1.5
26S09	2.8:1 32:1§	12	9,000 @ 20MA	310	210 .54	BAH	2 13/16	2	3 1/8	2	1.5
26S70	5:1	3	6,500 @ 13MA	285	8.2	BAH	2 13/16	2	3 1/8	1 3/4	1.5
26S30 ★	6:1	1	5,900 @ 30MA	255	8.3	BAH	2 13/16	2	3 1/8	1 3/8	1.0
26S29 ★	6:1	1	8,500 @ 30MA	249	8.5	BAH	3 1/8	2 1/4	3 5/8	2 1/8	1.5
26S71	6:1	3	7,500 @ 27MA	160	8	BAH	3 1/8	2 1/4	3 5/8	2	1.5
26S15 ★	6:1	8	7,500 @ 28MA	290	11	BAH	3 9/16	2 5/8	4	2 1/8	3
26S23 ★	7:1	1	7,800 @ 16MA	395	8.5	BAH	2 13/16	2	3 1/8	1 7/8	1.25
26S74 ★	7:1 or 15:1	10	8,500 @ 34MA	345	14 TAP 7	CAF-1	3 1/4	2 1/4	3 3/4	2 1/2	1.8
26S22 ★	8:1	1	11,100 @ 24MA	380	6	BAH	2 13/16	2	3 1/8	1 7/8	1.25
26S24 ★	8:1	1	7,300 @ 30MA	220	4	BAH	3 1/8	2 1/4	3 5/8	2 1/8	1.5
26S72	8:1	3	7,000 @ 30MA	395	6	BAH	3 1/8	2 1/4	3 5/8	2	1.5
26S11 ★	8.16:1 16.15:1#	6	8,000 @ 25MA	340	7 39■	BAH	2 13/16	2	3 1/8	1 3/4	1.25
26S77	8.8:1	3	16,500 @ 10MA	825	12	BAH	2 13/16	2	3 1/8	1 3/4	1.25
26S73 ★	9:1	2	11,000 @ 19MA	510	16	BAH	3 1/8	2 1/4	3 5/8	1 3/4	2
26S13 ★	9:1 2.6:1●	7	10,500 @ 27MA	430	8.9	BAH	3 1/8	2 1/4	3 5/8	2	2.5
26S79 ★	9:1	2	11,000 @ 19MA	535	10	CAF-2	3 5/16	1 1/2	2 3/16	3 3/4	1.7
26S18	9:1	3	11,000 @ 19MA	525	15	CAF-1	2 3/4	2 1/2	2 3/16	2 5/8	2.0
26S51	10:1	3	18,000 @ 12MA	1,195	9	BAH	2 13/16	2	3 1/8	1 1/4	1.5
26S53	10:1	3	19,700 @ 13MA	788	12	BAH	3 1/8	2 1/4	3 5/8	2	2.5
24S86	10:1	3	20,000 @ 13MA	540	6.7	CAV	†	3 1/8	2 1/2	2 1/2	2.5
26S78	10:1	3	18,000 @ 10MA	500	6.5	CAV	††	3 1/16	2 1/4	2 1/2	2.2
26S04 ★	11:1 3.2:1#	5	8,700 @ 40MA	470	4 210■	BAH	3 1/8	2 1/4	3 5/8	2	2.5
26S52 ★	11.4:1	2	17,000 @ 20MA	1,170	11.5	BAH	2 13/16	2	3 1/8	1 3/4	1.5
26S07 ★	11.6:1	1	7,700 @ 33MA	330	2.3	BAH	3 1/8	2 1/4	3 5/8	2 1/8	2.5
26S14 ★	12.5:1	1	17,000 @ 19MA	485	7.5	BAH	3 1/8	2 1/4	3 5/8	2	2.5
26S08 ★	12.8:1	1	7,000 @ 32MA	327	2.4	BAH	3 1/8	2 1/4	3 5/8	1 7/8	2
26S03 ★	15:1 6.1:1#	4	3,000 @ 15MA	2,700	15 295■	BAH	2 13/16	2	3 1/8	1 3/4	1.25
26S21 ★	15:1	1	26,000 @ 10MA	1,420	23	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1.25
26S06 ★	15:1	1	35,000 @ 18MA	2,800	10	BAH	2 13/16	2	3 1/8	1 7/8	1.25
26S27	15:1	3	25,100 @ 20MA	1,835	9	BAH	2 13/16	2	3 1/8	1 7/8	1.25
26S02 ★	15:1	2	12,500 @ 26MA	526	3.7	BAH	3 1/8	2 1/4	3 5/8	2	2.5
26S19 ★	15:1	1	11,000 @ 27MA	475	5	BAH	2 13/16	2	3 1/8	1 1/2	1.3
26S76 ★	15:1 2.5:1#	6	18,000 @ 11MA	950	10 514■	BAH	2 13/16	2	3 1/8	1 7/8	1.5
26S01 ★	15.9:1	1	12,500 @ 26MA	530	3.2	BAH	3 1/8	2 1/4	3 5/8	2	2.5
26S05 ★	16:1 3.25:1#	5	29,700 @ 15MA	2,350	10 850	BAH	2 13/16	2	3 1/8	2	2
26S54 ★	18:1	1	30,000 @ 10MA	1,581	5	BAH	3 1/8	2 1/4	3 5/8	2	2
26S25 ★	18:1	1	27,600 @ 20MA	1,600	10.5	BAH	2 13/16	2	3 1/8	1 7/8	1.5
26S26	18:1	3	28,000 @ 20MA	1,539	10.4	BAH	2 13/16	2	3 1/8	1 7/8	1.5
26S28	18:1	3	28,500 @ 20MA	1,686	4.7	BAH	3 1/8	2 1/4	3 5/8	2	2
26S20	32:1	3	22,000 @ 0MA	1,204	3	BAH	2 3/8	1 5/8	2 7/8	1 1/2	1
26S12	35.8:1	3	27,000 @ 7MA	1,400	4	BAH	2 3/8	1 5/8	2 7/8	1 5/8	1
26S55 ★	25:1 or 50:1	9	14,000 @ 20MA	675	1.3	BAH	3 1/8	2 1/4	3 5/8	2	2
26S56	25:1 or 50:1	11	17,200 @ 20MA	715	1.7	BAV	3 1/8	3 1/8	3 5/8	2 1/4	2.5
26S57	44:1	3	11,000 @ 20MA	387	.3	CAV	†	3 1/8	2 1/2	2 3/8	2.25
26S17 ★	44:1	1	13,500 @ 15MA	790	.7	BAH	2 13/16	2	3 1/8	1 1/2	1.5
26S16 ★	45:1	1	15,000 @ 25MA	390	.4	BAH	3 9/16	2 5/8	4	2 1/8	3
26S75	‡		40MA MAX.	1,080	12	BAH	2 13/16	2	3 1/8	2 1/2	1.75

★ Autoformer
■ Blanking Winding
Primary to Blanking Winding
§ Primary to Blocking Oscillator Winding
● Primary to Screen Tap
† Mounting Dimensions 1 9/16 × 2
†† Mounting Dimensions 1 19/32 × 1 3/4
‡ Multipurpose unit with the following turns ratios available:
5:1, 6:1, 7.5:1, 9:1, 10:1, 12:1, 15:1, 20:1, 28:1, 41:1, 50:1

Δ SCHEMATICS SHOWN ON NEXT PAGE

Vertical Outputs Schematics

1



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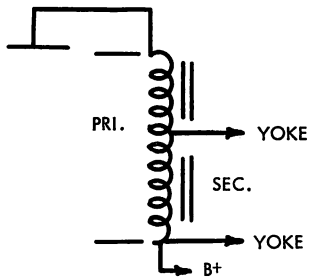

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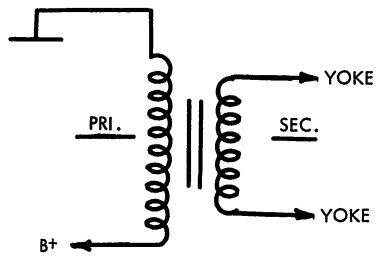

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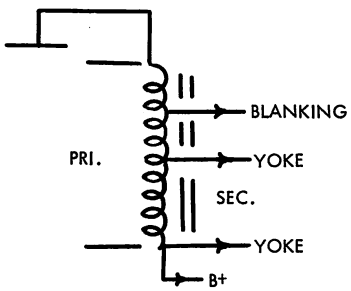

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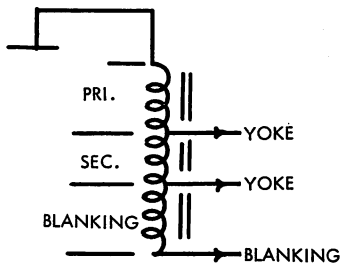

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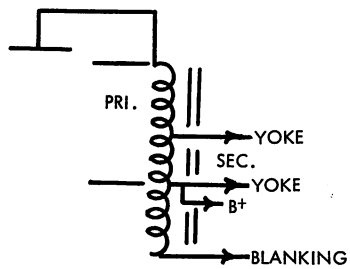

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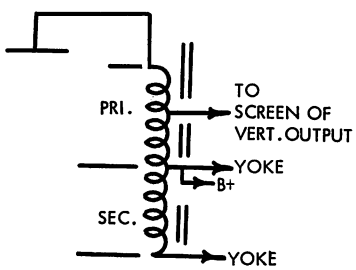

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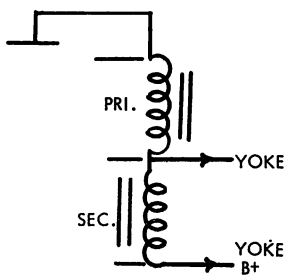

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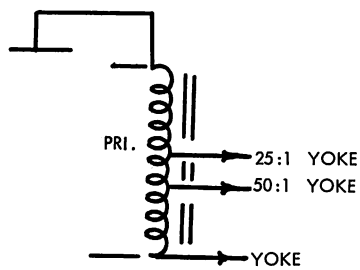

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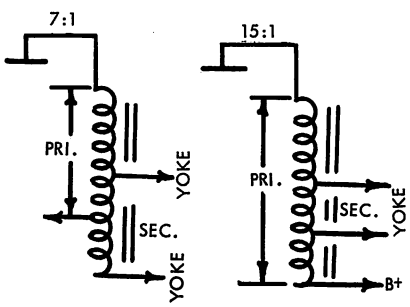

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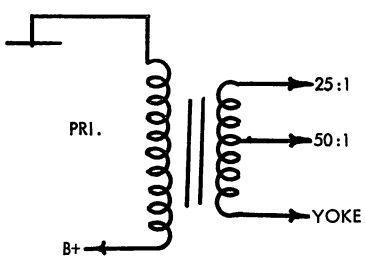

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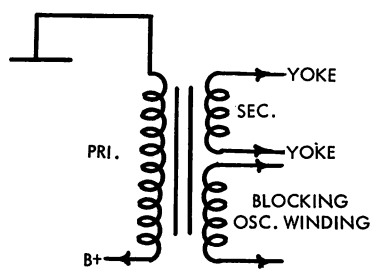


IF

SU

US

PS

Horizontal "Sync" Transformers

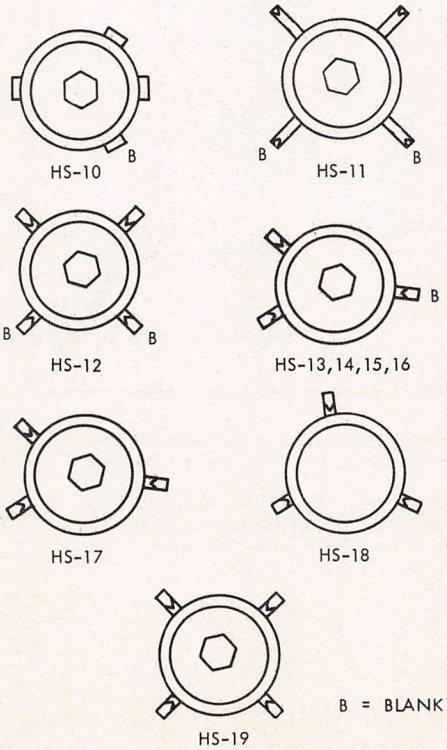
Part No.	Schematic (Below)	Description	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions Diameter
HS-1	1	Horiz. Osc. and AFC Discr.	SU	1 3/8	2 1/4	1 3/8 SQ.
HS-2	2	Horiz. Osc. and Sync. Control	SU	1 3/8	2	1 3/8 SQ.
HS-3	3	Horiz. Osc. and Sync. Stabilizer	SU	1 3/8	2 5/8	1 3/8 SQ.
HS-9*	3	Horiz. Osc. and Sync. Stabilizer	SU	1 3/8	2 5/8	1 3/8 SQ.
HS-4	4	14-28 MH Ringing Coil	PS	1 1/4 Hole	2	1
HS-5	4	10-50 MH Ringing Coil	IF	5/16 or 7/16	2 5/16	3/4
HS-6	5	90-160 MH Horiz. Osc. Coil	IF	7/16 Hole	2 5/16	3/4
						REPLACES
HS-7	5	15-85 MH Horiz. Osc. Coil	IF	5/16 or 7/16	2	RCA 103103
HS-8	4	5.2-13.8 MH Horiz. Wave Shaping Coil	IF	5/16	1 5/8	RCA 103102
HS-10	4	24-46 MH Ringing Coil	IF		1 3/4	ADMIRAL 94C17-4
HS-11	4	11-33 MH Ringing Coil	US		1 5/8	GE RLI-365
HS-12	4	20-32 MH Ringing Coil	US		1 3/8	GE RLI-380
HS-13	4	12.5-21 MH Ringing Coil	US		1 3/8	GE RLI-431/-456
HS-14	4	45-62 MH Ringing Coil	US		1 3/8	GE RLI-424
HS-15	4	22-33 MH Ringing Coil	US		1 3/8	GE RLI-459
HS-16	4	15-45 MH Ringing Coil	US		2	GE WT36X402
HS-17	4	5-11.6 MH Horiz. Wave Shaping Coil	US		1 1/4	RCA 102195,100300
HS-18	6	60 MH Horiz. Osc. Coil	US		1 1/4	RCA 105667
HS-19	7	Horiz. Osc. and Sync. Stabilizer	US		2 1/2	RCA 107284

* Same as HS-3 but has horizontal frequency adjustment opposite the terminal end.

Printed Circuit

Terminal Layout

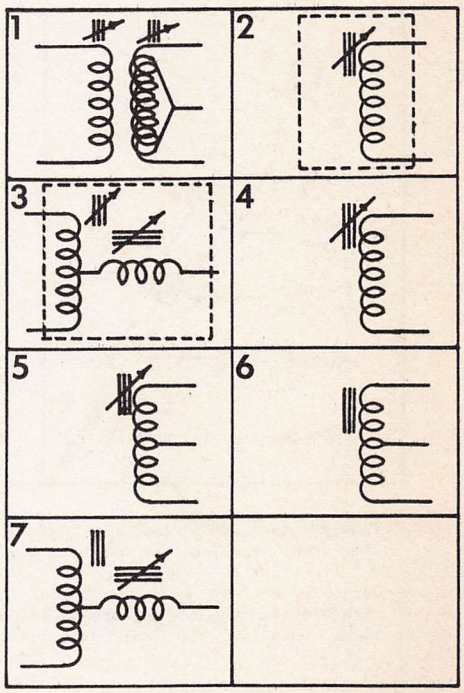
ALL TERMINALS SPACED FOR 3/8" DIAMETER PRINTED CIRCUIT MOUNTING EXCEPT HS-11 WHICH IS FOR 5/8" DIAMETER.



HS-10 HS-11 HS-12 HS-13,14,15,16 HS-17 HS-18 HS-19

B = BLANK

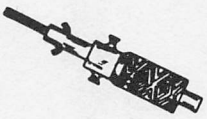
Schematic



Width And Linearity Controls

Part No.	Schematic No.	Inductance (MH)	Resistance	Notes	Mtg. Type	Mtg. Hole	Dimensions H	Dimensions O.Dia.
WC-10	1	.05 - .3	.194		IF	5/16 or 7/16	2	9/16
WC-11	1	.05 - .3	.51		IF	5/16 or 7/16	1 1/2	7/16
WC-12	1	.8 - 3.7	17		IF	5/16 or 7/16	2	1/2
WC-13	3	4.2 - 30 .76	22	AGC Winding	IF	5/16 or 7/16	2 1/2	7/8
WC-14	1	5.5 - 30	34		IF	5/16 or 7/16	2	5/8
WC-15	1	.17 - .61	1		IF	5/16 or 7/16	2 7/8	1/2
WC-16	2	.55 - 2.3	8.3	Tapped	IF	5/16 or 7/16	2 13/16	7/16
WC-17	2	1.3 - 4.3	7	Tapped	IF	5/16 or 7/16	2	5/8
WC-18	1	2.5 - 17	18		IF	5/16 or 7/16	2 1/4	3/4
WC-19	1	10 - 50	40		IF	5/16 or 7/16	2 1/4	3/4
WC-20	3	2.6 - 7.5 4 - 28	22 25	AGC Winding	IF	5/16 or 7/16	2 1/4	3/4
WC-21*	4	2 - 18 2 - .2	10 2.8	Parallel Coil Series Coil	PR	5/16	3 1/4	5/8
WC-22	1	1 - 10	8		IF	5/16 or 7/16	2 1/8	9/16
WC-23	1	.5 - 3.5	2.3		IF	5/16 or 7/16	2 1/2	1/2
WC-24*	4	4.4 - 29 2.3 - .35	28 3.5	Parallel Coil Series Coil	PR	5/16	2 3/4	5/8
WC-25	1	.67 - 3.4	12	Linearity Coil	IF	5/16	2	1/2
WC-26	3	10 - 23 .22 - 1.1	114 1.2	Width Coil with AGC	IF	5/16	2 3/4	11/16
WC-27	3	3.2 - 9 .16 - .70	28 1.0	Width Coil with keyed winding	IF	5/16	2 3/8	5/8
WC-28	2	2.4 - 11.8	10	Width Coil Tapped at 7.22	IF	7/16	2 5/8	5/8
WC-29*	4	4 - 30 .075 - .80	23 3	Width Coil with AGC	PR	5/16	2 3/4	9/16
WC-30	1	45 - 215	130	Width Coil	IF	7/16	2 1/4	1 3/16
WC-31	3	1.75 - 10.5 9.4 - 26	9 47	Tapped	IF	5/16	2 1/4	3/4
WC-32	5	3.5 - 31 2.0 - 8.5CT	27.5 23CT	AGC Winding Center Tapped	IF	7/16	2 1/2	7/8
WC-33	2	.55 - 4.6	8.3	Center Tapped	IF	5/16	2 1/2	3/4
WC-34	1	2.5 - 19	11	Width Coil	IF	5/16	2 3/16	9/16

* Units specially designed for use in "Double Action" width control circuits — one coil in parallel with flyback transformer, the other coil in series with deflection yoke.



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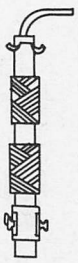

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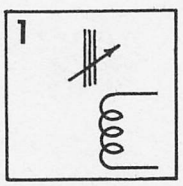
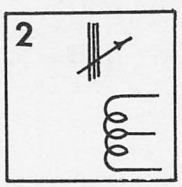
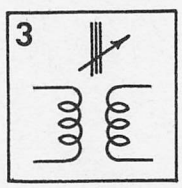
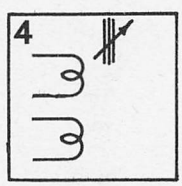
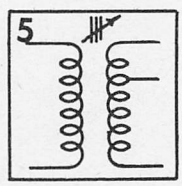


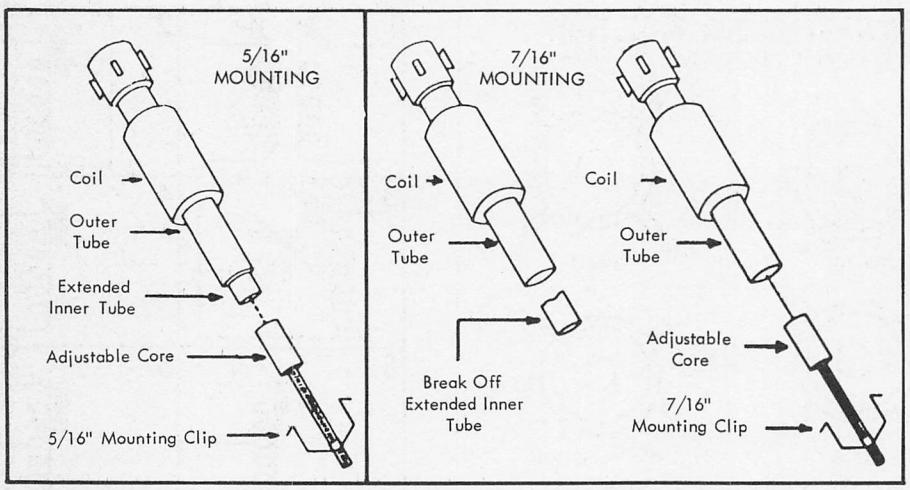






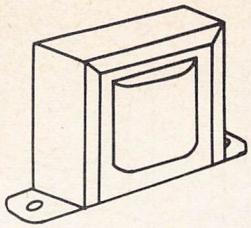


MOUNTING DATA

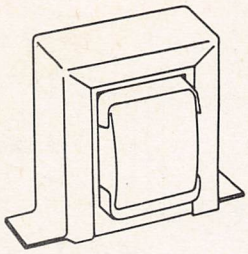


Note: To mount this unit in a 5/16" hole, first thread the small clip on the adjustable core. Then insert core into the innertube and press the clip firmly over the end of the tube.

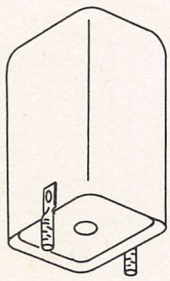
To mount this unit in a 7/16" hole, first thread the large clip on the adjustable core. Then before inserting core into tube break off extended inner tube with long nose pliers.(See drawing). Insert core into the inner tube and press the clip firmly over the outer tubing.



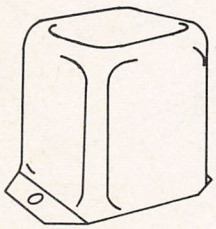
BAH



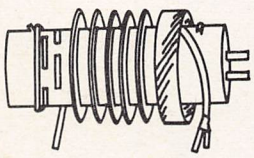
BAV



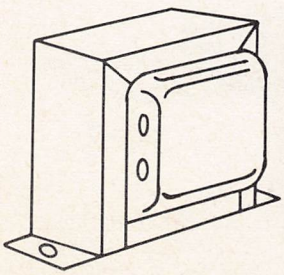
XAV



TAV-1



OC



BGV

Vertical Blocking Oscillator Transformers

Part No.	Turns Ratio	Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
24A87	1:4.14	BAH	2	1 3/8	2 3/8	1 3/4	0.5
24A88	1:4.14	TAV-1	2	1 3/4	2 3/8	1 1/2	.75
26A01	1:0.48 - 1:1	BAH	2 3/8	1 5/8	2 7/8	1 5/8	1.0
26A02	1:1.5	BAV	1 3/4	1 3/4	1 1/4	2	0.5
26A03	1:4.14	BAH	1 3/4	1 3/16	1	2 1/8	0.5
26A04	1:4.14	XAV	1 3/16	1 9/16	1 3/16	1 3/16	0.75
26A05	1:3.5	BAH	1 3/4	1 3/16	2 3/8	1 1/2	0.5
26A06	1:1.5	BAH	2	1 1/2	1 1/2	2 1/2	0.5

✪ Constructed with two isolated secondaries.

Horizontal Blocking Oscillator Transformers

Part No.	Turns Ratio	Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
24A89	2:1	BAH	2	1 3/8	2 3/8	1 1/2	0.5
24A90	2:1	TAV-1	2	1 3/4	2 3/8	1 1/4	0.75

Focus Coils

Part No.	DC Resistance	Maximum MADC	Mtg. Type	Dimensions O. Dia.	Depth	Wt. Lbs.
FC-1	245	200	RCS	3 3/8	1 1/2	2
FC-2	360	140	RCS	3 3/8	1 1/2	2
FC-3	470	100	RAS	4 3/4	1 5/16	3.2
FC-4	1,000	75	RCS	3 3/8	1 1/2	2

High Voltage Oscillator Coils

Part No.	Schematic No.	Description	Mtg. Type	Mtg. Centers	Dimensions H	Dia.
HVO-50	26	10 KV at 50 UA with recommended circuit 8 KV at 400 UA	OC	1 1/4	4 3/16	2
HVO-51	27	30 KV at 50 UA with recommended circuit	OC	1 1/2	5 1/2	2 3/8

TV Booster and Converter Power Transformers

Part No.	Plate Supply Volts	MADC	Filaments Volts	Amps.	Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
26R32	117	20	6.3CT	0.7	BGV	2	2	1 5/8	2 1/2	.75
26R37	125	15	6.3	0.6	BAV	2	2	2 3/8	1 3/8	.7
26R38	125	50	6.3	2.0	BAH	3 1/8	2 1/4	3 3/4	2 1/8	1.5
26R60	150	25	6.3	0.5	BGV	2	2	1 3/4	2 1/2	.7
22R12	150	50	6.3	1.5	BAH	3 1/8	2 1/4	2	3 3/4	1.5

Power Transformers

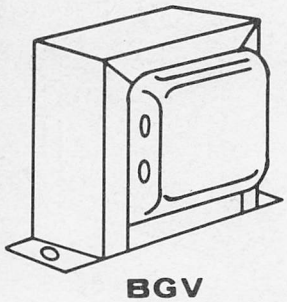
PRIMARY 117 VOLT 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26R55		96	145			6.3	6.45	AGF	2 3/16	3 1/8	2 1/2	3	2.6
26R32		117	20			6.3CT	.7	BGV	2	2	1 5/8	2 1/2	1
26R14		117	200			6.3 6.3 6.3	4.5 4 2	AGF	2 3/4 x 21/2	3 1/2	3 1/2	4 1/8	5.2
26R106	9	117/110	900			6.3	10	AGF	2 13/16 x 2 1/4	2 5/8	3 3/8	2 13/16	4
26R105	9	117/110	900			6.3	10	GGH	3 5/16 x 3 3/16 or 2 1/2 x 3 3/16	3 1/8	3 3/4	3 3/4	4
26R37		125	15			6.3	.6	BAV	2	2	2 3/8	1 3/8	.7
26R38		125	50			6.3	2	BAH	3 1/8	2 1/4	3 1/4	2 1/8	1.5
26R107	9	127/115	1,000			12.6CT 12.6CT 6.3 6.3	5 2 10 2	AGF GGV GGH	3 1/8 x 2 1/2 2 1/2 x 2 1/8 2 1/2 x 2 1/8	3 1/2 3 3/4 3 1/8	3 3/4 3 1/8 3 3/4	3 1/8 3 1/2 3 1/2	6
26R13		140/117	300			6.3 6.3 6.3	9 2 1	AGF	3 x 3 3/4	3 7/8	3 3/4	4 1/2	7.5
26R108	9	140/127/115	1,000			6.3 6.3 12.6CT	6 6 2	AGF GGV GGH	2 1/4 x 2 13/16 2 1/4 x 2 1/8 2 1/8 x 2 13/16	3 1/8 3 1/2 3	3 3/8 2 13/16 3 3/8	2 13/16 3 1/8 3 1/8	6
26R60		150	25			6.3	.5	BGV	2	2	1 3/4	2 1/2	.7
26R39		184 Tap 92	260 .6			–	–	AGF	1 3/4 x 2 3/16	2 3/4	2 3/16	2 5/8	2
26R28U		1,750	2			2.5 6.3/ 2.5	2 2	GGV	2 x 2	3 1/8	2 5/8	2 7/8	2.6
26R81		220-0-220 130-0-130	330 220	5	3	6.3 6.3	6.5 6.5	AGF	3 x 3 3/4	4 7/8	3 3/4	4 1/2	10.5
26R63		225-0-225	90	5	2	6.3	5.15	AGF	2 1/4 x 2 13/16	3 3/4	2 13/16	3 3/8	4.5
26R09		230-0-230	300	5	6	6.3 6.3 6.3	10 2.5 1.2	AGF	3 3/4 x 3	3 3/8	4 1/2	3 3/4	12
26R33		250-0-250 or 300-0-300	280 250	5 5	3 3	6.3 6.3	5 5	AGF	3 x 3 3/4	4 1/2	3 3/4	4 1/2	11
26R109	9	250-0-250	300	5/3	3.8	6.3	10	GGV	2 1/2 x 2 11/16	3 7/8	3 1/8	3 15/16	4.5
26R110	9	250-0-250	300	5/3	3.8	6.3	11	GGV	2 3/4 x 2 5/8	4 1/8	3 7/16	3 5/8	5
26R111	9	250-0-250	300	5/3	3.8	6.3	11	AGF	3 7/16 x 2 3/4	2 1/2	4 1/8	3 7/16	5
24R122		250-0-250	500	5	6	–	–	GGV	3 x 2 13/16	4 5/8	3 3/4	3 7/8	7
26R112	9	255-0-255	300	5/3	3.8	6.3	10	GGV	2 1/4 x 2 7/8	3 1/2	2 13/16	4	6
26R113	9	255-0-255	300	5/3	3.8	6.3	10	AGF	3 5/16 x 2 11/16	2 5/8	3 3/4	3 1/8	6
26R114	9	255-0-255	300	5/3	3.8	6.3	10	GGH	3 5/16 x 3 3/16	3 1/8	3 3/4	3 3/4	6
26R31		260-0-260	90	–	–	6.3	4	AGF	2 1/4 x 2 13/16	3 1/2	2 5/8	3 3/8	3.5
26R31U		260-0-260	90	–	–	6.3	4	GGV	2 x 2 1/4	3 1/8	2 5/8	3 1/8	3.5
26R142	8	260-0-260	90	–	–	6.3CT	3.5	GGV	2 x 2 7/16	3 1/8	2 5/8	3 1/4	3.5
26R36		260-0-260	150	5	5	6.3	5	AGF	2 1/2 x 3 1/8	3 3/4	3 1/8	3 3/4	4.2
26R143	8	260-0-260	150	5	5	6.3	5	AGF	2 1/2 x 3 1/8	3 3/4	3 1/8	3 3/4	4.2
26R10		260-0-260	270	5	3	6.3	10	AGF	3 x 3 3/4	2 5/8	3 3/4	4 1/2	8.7
26R52		260-0-260	380	5CT	6	12.6CT	6.4	GRV-1	3 x 5 1/2	6	3 3/4	5 1/2	11
26R126	9	262.5-0-262.5	300	5	3	6.3	10	AGF	2 1/4 x 2 13/16	2 7/8	3 3/8	2 13/16	4
26R48		265-0-265	228	5	3	12.6CT	5.5	AGF	2 1/2 x 3 1/8	3 7/8	3 1/8	3 3/4	5
26R59		265-0-265	300	5	6	12.6CT	6	GRV-1	3 x 5 1/2	6	3 3/4	5 1/2	11
26R88		265-0-265	300	5	6	6.3 6.3 6.3	6 6 1.2	AGF	3 x 3 3/4	5	3 3/4	4 1/2	11
26R47		268-0-268	260	5	3	6.3	10.5	AGF	2 1/2 x 3 1/8	3	3 1/8	3 3/4	5
26R53		268-0-268	260	5	3	6.3	8	GGV	2 3/4 x 2 15/16	4 1/4	3 7/16	4	6.2
26R44		270-0-270	200	5	3	6.3	8.5	AGF	2 11/16 x 3 5/16	4 1/4	3 1/8	3 3/4	6.2
26R49		270-0-270	200	5	3	12.6CT	4.5	AGF	2 1/2 x 3 1/8	3 5/8	3 1/8	3 3/4	5
26R115	9	270-0-270	300	5/3	3.8	6.3	10	GGV	2 1/2 x 2 5/8	3 3/4	3 1/8	3 7/8	5.5
26R118	9	270-0-270	300	5/3	3.8	6.3	10	GGV	2 1/4 x 3 1/4	3 1/2	2 13/16	4 3/8	5.5
26R116	9	270-0-270	300	5/3	3.8	6.3	10	AGF	3 5/16 x 2 11/16	2 9/16	3 3/4	3 1/8	5.5
26R117	9	270-0-270	300	5/3	3.8	12.6CT	6	AGF	3 5/16 x 2 11/16	2 3/4	3 3/4	3 1/8	5.7
26R119	9	272.5-0-272.5	300	5/3	3.8	6.3	11	GGV	2 3/4 x 2 3/4	4 1/8	3 7/16	3 1/2	5.7
26R120	9	272.5-0-272.5	300	5/3	3.8	6.3	11	AGF	3 7/16 x 2 3/4	2 5/8	4 1/8	3 7/16	5.7
26R41		275-0-275	220	5	3	6.3 7	8.5 .47	AGF	3 x 3 11/16	3 3/4	3 7/16	4 1/8	5

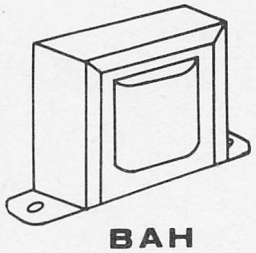
8 Primary 115/230 Volts 50/60 Cycles.

9 Triple X grain oriented lamination – see the complete line of Triple X units on page 165.

CONTINUED NEXT PAGE



BGV



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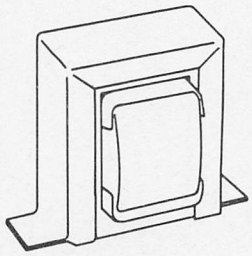

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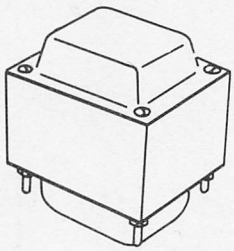

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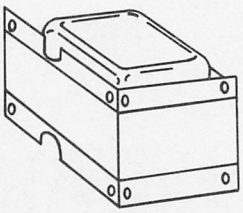
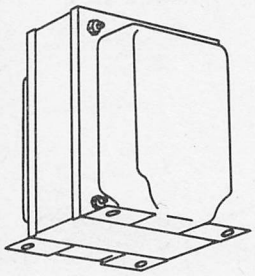


GGH



GGV

GRV-1

GRV-1 SAME AS GGV WITH TUBE SOCKET ON TOP.

Power Transformers continued

PRIMARY 117 VOLT 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26R11		275-0-275	270	5	3	6.3	10	AGF	3 x 3 3/4	2 3/4	4 1/2	3 3/4	9
26R77		275-0-275	270	5	3	6.3	10	AGF	2 3/4 x 3 7/16	3 1/8	4 1/8	3 7/16	9
26R43		275-0-275	275	5	3	12.6CT	6	GGV	2 1/2 x 3 1/8	3 3/4	3 1/8	4 3/8	7
26R121	9	275-0-275	300	5	6	6.3 6.3 6.3	8 5 2	AGF GGV GGH	3 1/8 x 2 1/2 2 1/2 x 3 3/8 2 1/2 x 3 3/8	3 13/16 3 3/4 3 1/8	3 3/4 3 1/8 3 3/4	3 1/8 4 3/4 4 3/8	7.5
26R56		275-0-275	310	5CT	3	6.3	12.6	ARF	3 5/16 x 4 1/16	5	3 3/4	4 1/2	8.2
26R79		275-0-275	350	5CT	6	6.3 6.3 6.3	8 6 2	AGF	3 x 3 3/4	3 3/8	4 1/2	3 3/4	12
26R80		275-0-275	350	5CT	6	6.3 6.3 6.3	8 6 2	ARF-1	3 x 3 3/4	3 3/8	4 1/2	3 3/4	12
26R58		276-0-276	315	5	6	6.3	11.5	AGF	3 3/16 x 4 1/16	5	3 3/4	4 1/2	8.2
26R50		279-0-279	265	5	5	6.3 6.3 6.3	7.1 1.2 .9	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	8
26R89		280-0-280	260	5	3	6.3 6.3 6.3	8 1.5 1.2	ARF	3 x 3 3/4	5 1/8	4 1/2	3 3/4	11.2
26R90		280-0-280	260	5	3	6.3 6.3 6.3	8 1.5 1.2	AGF	3 x 3 3/4	5	4 1/2	3 3/4	11
26R122	9	280-0-280	280	5	3	6.3	9.5	AGF GGV GGH	3 1/8 x 2 1/2 2 1/2 x 2 5/16 2 1/2 x 2 5/16	3 1/16 3 3/4 3 1/8	3 3/4 3 1/8 3 3/4	3 1/8 3 11/16 3 11/16	7
26R123	9	280-0-280	300	5	4	6.3	10	GGV	2 11/16 x 3 3/16	3 3/4	3 1/8	3 7/8	7
26R72		280-0-280	400	5	6	6.3 6.3	4.5 8.5	AGF	3 3/16 x 4 1/16	6	3 13/16	4 3/4	13
26R51		281-0-281	250	5	3	6.3	9.5	LGH	2 3/8 x 2 1/2	4	3 7/16	4 1/8	6.2
26R61		282-0-282	240	5	3	6.3	8.7	AGF	3 3/16 x 4 1/16	4 1/4	3 3/4	4 1/2	6.5
26R124	9	285-0-285	300	5	3.8	12.6CT	5.2	GGV	2 1/2 x 2 3/4	3 3/4	3 1/8	3 5/8	7
26R125	9	285-0-285	300	5	3.8	12.6CT	5.2	AGF	3 5/16 x 2 11/16	2 3/4	3 3/4	3 1/8	7
26R98		290-0-290	200	5CT	3	6.3 6.4	1.2 8.4	ARF	2 3/4 x 3 7/16	4 9/16	3 7/16	4 1/8	6
26R12		290-0-290	270	5	3	6.3	10	AGF	3 x 3 3/4	2 7/8	4 1/2	3 3/4	9
26R127	9	290-0-290	300	5/3	3.8	6.3	10	GGV	2 3/4 x 2 3/4	3 3/4	3 1/8	4	7.5
26R128	9	290-0-290	300	5	3.8	6.3	10	AGF	3 5/16 x 2 11/16	2 13/16	3 3/4	3 1/8	7.5
26R129	9	290-0-290	300	5/3	3.8	6.3	10	GGH	3 5/16 x 3 9/16 or 2 1/2 x 3 9/16	3 1/8	3 3/4	4	7.5
26R130	9	290-0-290	300	5/3	3.8	6.3	11	GGH	3 7/16 x 2 5/8 or 3 7/16 x 3 1/4	3 7/16	4 1/8	3 1/2	7.6
26R40		292-0-292	285	5	3	6.3	8.5	AGF	2 3/4 x 3 7/16	4 3/8	3 1/2	4 1/8	7.3
26R131	9	292-0-292	300	5/3	3.8	6.3	11	GGV	2 3/4 x 2 3/4	4 1/8	3 7/16	3 3/4	7
26R132	9	292-0-292	300	5/3	3.8	6.3	11	AGF	3 7/16 x 2 3/4	2 3/4	4 1/8	3 7/16	7
26R137		295-0-295	225	5CT	3	6.3 6.3	11.4 .9	ARF	3 5/16 x 4 1/16	4 5/8	3 3/4	4 1/2	10
26R100		295-0-295	350	5	6	6.3 6.3 6.3	8 5 2	AGF	3 x 3 3/4	3 5/8	3 3/4	4 1/2	12
26R101		295-0-295	350	5	6	6.3 6.3 6.3	8 5 2	ARF-1	3 x 3 3/4	3 5/8	3 3/4	4 1/2	12
26R71		300-0-300	230	5	3	6.3	9	AGF	2 3/4 x 3 7/16	4 1/4	3 7/16	4 1/8	8
26R91		300-0-300	250	5	3	6.3 6.3	11.7 1.2	AGF	2 3/4 x 3 7/16	4 7/8	3 7/16	4 1/8	9.5
26R33		300-0-300 or 250-0-250	250 280	5 5	3 3	6.3 6.3	5 5	AGF	3 x 3 3/4	4 1/2	3 3/4	4 1/2	11
26R08		300-0-300	270	5	3	6.3 6.3 6.3	5 5 1.2	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	11
26R136		300-0-300	325	5	6	6.3 6.3	8.8 1.5	AGF	3 5/16 x 4 1/16	5 1/8	3 3/4	4 1/2	13
26R34		300-0-300	340	5	6	6.3 6.3 6.3	10.2 1.2 1.2	ARF-1	3 x 3 3/4	5 1/2	3 3/4	4 1/2	13
26R92		300-0-300	400	5	6	6.3 6.3 6.3	10 4.5 1.2	AGF	3 x 3 3/4	5 3/8	3 3/4	4 1/2	13.5
26R42		306-0-306	460	5	6	6.3 4.6	11.4 .150	AGF	3 1/2 x 4 3/8	4 3/4	4 3/8	5 1/4	11.5
26R138		310-0-310	240	5	3	6.3 6.3	6.4 3	AGF	3 5/16 x 4 1/16	4 1/2	3 3/4	4 1/2	9
26R135		315-0-315	225	5	3	6.3	8.25	ARF	3 5/16 x 4 1/16	4 1/2	3 3/4	4 1/2	9

9 Triple X grain oriented lamination – see the complete line of Triple X units on page 165.

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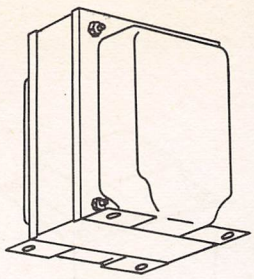

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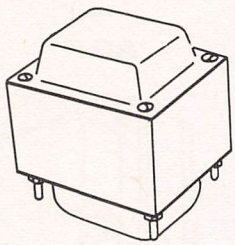

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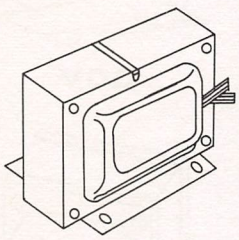

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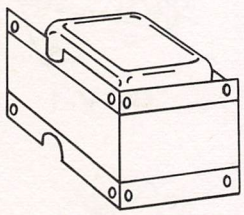

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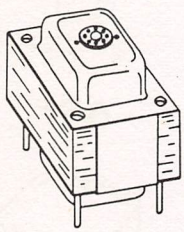

ARF

ARF-1

ARF-1 SAME AS ARF BUT WITH DOUBLE MOUNTED TUBE SOCKET

Power Transformers continued

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26R93		315-0-315	310	5	6	6.3 6.3 6.3 6.3	6 6 1.2 1	AGF	3 x 3 3/4	5	3 3/4	4 1/2	11
26R24		322-0-322 205-0-205	180 70	5CT	3	6.3 6.3	10 3	ARF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.2
26R04		325-0-325	240	5	3	6.3 6.3 6.3	9 1.2 .9	AGF	3 x 3 3/4	3 11/16	4 1/2	3 3/4	13
26R07		325-0-325	240	5	3	6.3 6.3 6.3	9 1.2 .9	ARF	3 x 3 3/4	3 11/16	4 1/2	3 3/4	13
26R45		328-0-328	270	5	3	12.6CT	5.25	GGV-1	3 x 4 7/16	4 5/8	3 3/4	4 13/16	8
26R102		330-0-330	270	5	6	6.3 6.3	9.35 1.2	GGV	3 x 3 5/8	4 5/8	4	4 3/4	10
26R64		335-0-335	175	5	2	6.3 6.3	7 1.2	GGV	3 x 2 13/16	4 5/8	3 3/4	3 7/8	8.2
26R03		337-0-337	185	5	3	6.3 6.3	7 2	AGF	3 x 3 3/4	3 5/8	3 3/4	4 1/2	8
26R78		340-0-340	190	5	3	6.3 6.3	7.8 1.2	AGF	4 1/16 x 3 3/16	4 1/2	4 1/2	3 3/4	11
26R70		340-0-340	335	5	6	6.3 6.3 6.3	2.5 5 5	AGF	4 1/16 x 3 3/16	6	4 1/2	3 3/4	13
26R94		340-0-340	360	5	6	6.3 6.3 6.3	2.5 5 5	AGF	3 x 3 3/4	5 3/8	4 1/2	3 3/4	12.5
26R57		344-0-344	290	5	6	6.3 6.3 6.3	9.5 1.65 2.4	AGF	4 1/16 x 3 3/16	5 7/16	4 1/2	3 3/4	12.3
26R74		350-0-350 220-0-220	180 70	5	3	6.3 6.3	10 2	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.5
26R99		350-0-350	200	5	3	6.3 6.3 6.3	6 4 2	AGF	3 x 3 3/4	2 5/8	3 3/4	4 1/2	9
26R25U		350-0-350	200	5 5	3 3	6.3 6.3	7 .6	GGV	3 x 3 3/4	4 5/8	3 7/8	4 7/8	11.2
26R20		350-0-350	225	5CT	3	6.3 6.3	10.7 2.7	ARF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.5
26R21		350-0-350	225	5	3	6.3 6.3	10 2.7	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.5
26R69		350-0-350	270	5 5	2 6	6.3 6.3	7.8 1.6	AGF	3 x 3 3/4	5 1/4	3 3/4	4 1/2	13.1
26R54		356-0-356 268-0-268	180 148	5 5	3 3	12.6CT	6	GGV	3 x 4	4 1/2	3 3/4	5	11.6
26R73		356-0-356	295	5 5	2 6	12.6	5	AGF	3 3/16 x 4 1/16	6 5/8	3 13/16	4 3/4	17.2
26R62		356-0-356	458	5	6	6.3 6.3	14.5 2	VAV	3 5/16 x 4 1/16	4 3/4	4 7/8	4	11
26R23		360-0-360	180	5	3	6.3	9	AGF	2 3/4 x 3 1/2	4 1/4	3 1/2	4 1/8	8
26R22		360-0-360	180	5CT	3	6.3	9	ARF	2 3/4 x 3 1/2	4 1/4	3 1/2	4 1/8	8
26R82		360-0-360 165-0-165	185 65	5	3	6.45	12	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	9.6
26R96	12	360-0-360 165-0-165	185 65	5	3	6.3	12	AGF	3 x 3 3/4	4 3/8	3 3/4	4 1/2	10.5
26R65		360-0-360	200	5	3	6.3 6.3	1.2 1.2	AGF	3 3/16 x 4 1/16	5 9/16	3 13/16	4 3/4	10
26R141		360-0-360 220-0-220	220 110	5 5	2 3	12.6CT	5.8	GGV	3 x 3 7/8	4 7/8	3 3/4	5 1/4	11.5
26R17		360-0-360	250	5 5	3 3	6.3 6.3	9 3	AGF	3 x 3 3/4	5 1/8	3 3/4	4 1/2	11
26R15		360-0-360	250	5 5	3 3	6.3 6.3	9 3	AGF	3 x 3 3/4	5 1/8	3 3/4	4 1/2	11
26R68		360-0-360	250	5 5	2 3	6.3 6.3	8 .6	AGF	3 3/16 x 4 1/16	5 5/16	3 3/4	4 1/2	11.5
26R134		360-0-360	260	5 5	6 2	6.3	8.85	AGF	3 3/16 x 4 1/16	5 1/2	3 3/4	4 1/2	13
26R35		360-0-360	270	5 5	3 3	6.3 6.3 6.3 6.3	4.5 4.5 1.6 2.5	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	10

12 Isolated high voltage secondaries.

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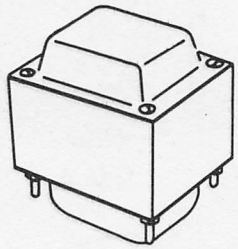

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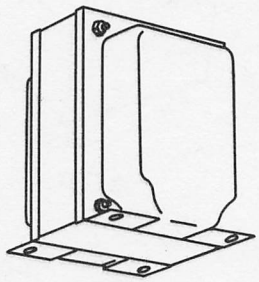
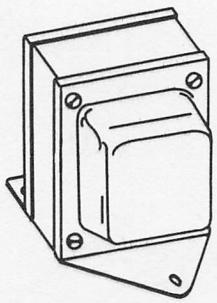
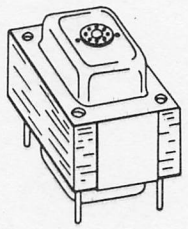


GGV



GGV-1



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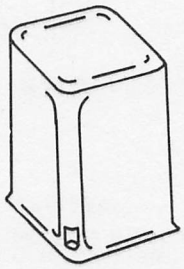

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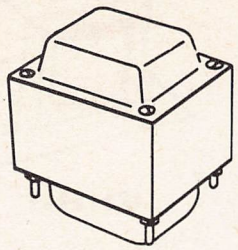

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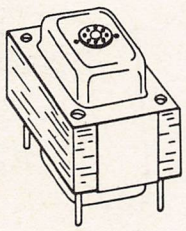

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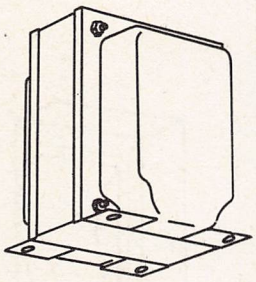


GGV

Power Transformers continued

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26R16		362-0-362	295	5 5	2 6	12.6CT	5	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	10.7
26R133		365-0-365	270	5	6	6.7	4.5	AGF	3 3/16 x 4 1/16	4 7/8	3 3/4	4 1/2	10
26R01		367.5-0-367.5	275	5 6.3/5	6 2	6.3CT	8.5	AGF	3 x 3 3/4	3 7/8	3 3/4	4 1/2	13
26R83		370-0-370	190	5	3	6.3 6.3	7.75 1.2	AGF	3 x 3 3/4	4 9/16	3 3/4	4 1/2	10.8
26R46		370-0-370	190	5	3	6.3 6.3	7.9 1.2	AGF	3 3/16 x 4 1/16	5 3/16	3 3/4	4 1/2	11.2
26R18		375-0-375 325-0-325	170 130	5 5 5	3 3 2	12.6CT 6.3	5 2.6	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.5
26R84		375-0-375	205	5 5	3 2	6.3	5.6	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	9.1
26R85		375-0-375	225	5CT	3	6.3 6.3	9 2	ARF	3 x 3 3/4	5	3 3/4	4 1/2	10.5
26R66		378-0-378	205	5	3	6.3 6.3	9.5 1.2	GGV	3 x 3 9/16	4 5/8	3 3/4	4 5/8	10.8
26R97		380-0-380	180	5	3	6.3	9	ARF	2 3/4 x 3 7/16	5 1/2	3 7/16	4 1/8	9.7
26R86		380-0-380	220	5	3	6.3 6.3 6.3	7 5 1.2	GGV	3 x 3 9/16	4 3/4	4	4 3/4	10.5
26R95		380-0-380	250	5	3	6.3 6.3 6.3	7 5 1.2	AGF	3 x 3 3/4	5	3 3/4	4 1/2	10.5
26R87		385-0-385 235-0-235	195 105	5 5 5	2 3 2	6.3 6.3	7.65 .6	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11
26R67		385-0-385	230	5 5	3 2	6.3	9	AGF	3 3/16 x 4 1/16	5 9/16	3 13/16	4 3/4	12
26R140		385-0-385	230	5 5	3 2	6.3 6.45	1.2 7.4	AGF	3 3/16 x 4 1/16	5 9/16	3 3/4	4 1/2	13
26R103		388-0-388	275	5	6	6.3 6.3	8.5 1.2	GGV	3 x 4 1/8	4 3/4	3 7/8	5 1/4	10
26R104		388-0-388	230	5 6.3/5	3 2	6.3	9	AGF	3 x 3 3/4	3 7/16	3 3/4	4 1/2	10
26R02		390-0-390 or 220-0-220	300	5 5 5	3 3 2	6.3 6.3	8.5 3.5	AGF	3 x 3 3/4	5	3 3/4	4 1/2	14
26R27U		390-0-390 325-0-325	160 130	5 5 5	3 3 3	6.3 6.3	8 4	AGF	3 x 3 3/4	4 5/8	3 3/4	4 1/2	12
26R05		395-0-395 or 325-0-325	310	5 5	3 2	6.3 6.3	5 5	AGF	3 x 3 3/4	4 1/8	3 3/4	4 1/2	11
26R06		395-0-395 or 325-0-325	310	5 5	3 2	6.3 6.3 6.3	5 5 2.5	GGV	3 x 4 3/8	4 3/4	3 7/8	5 1/2	13
26R139		400-0-400 330-0-330	180 180	5 5	3 3	–	–	GGV	3 x 3 1/2	4 5/8	3 3/4	4 3/4	11
26R19		400-0-400 212-0-212	220 90	5 5	3 2	6.3 6.3	10 2.6	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.7
26R75		400-0-400 212-0-212	220 90	5 5 5	3 3 2	6.3 6.3	10 2.6	AGF	3 x 3 3/4	5 1/4	3 3/4	4 1/2	11.9
26R26U		400-0-400	300	5 5	3 6	12.6CT	10	GGV	3 1/2 x 4 1/4	5 1/2	4 5/8	5 3/4	10.2
26R00		420-0-420 360-0-360 300-0-300	295	5 5	6 3	6.3 6.3 6.3 6.3	3 3 3 3	AGF	3 x 3 3/4	5	3 3/4	4 1/2	11
26R76		420-0-420 365-0-365 300-0-300 185-0-185	300	5 5	6 4	6.3 6.3 6.3 6.3	4 4 3 1.2	AGF	3 x 3 3/4	5 1/8	3 3/4	4 1/2	13
26R30U		450-0-450 325-0-325	240 200	5 5 5	3 3 3	6.3 6.3 6.3	6 6 2.6	GGV	3 5/8 x 3 7/8	6	4 3/4	5 7/8	16

CONTINUED NEXT PAGE

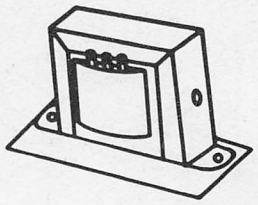
EXACT REPLACEMENT TRANSFORMERS FOR ANTENNA ROTORS

FOR Alliance TENNA ROTOR

MODEL	Alliance TRANSFORMER PART NUMBER	EXACT REPLACEMENT PART NUMBER
ATR	Y-4213R	ART-1
F-4	Y-4213R	ART-1
DIR	Y-4213T	ART-2
HIR	Y-4387-B	ART-3
T-10	Y-5357-R	ART-4
U-83	Y-5512-A	ART-5
U-98	Y-5512-A	ART-5
K-22	Y-5849-R	ART-6
T-12	Y-5880-R	ART-7

And CDR AND RADIART ANTENNA ROTOR

MODEL	CDR and RADIART TRANSFORMER PART NUMBER	EXACT REPLACEMENT PART NUMBER
TR-2, AR-1, AR-2, AR-22	TRB-3	ART-8
TR-11, TR-12, TR-4, TR-15, TR-16	MCU-13	ART-9



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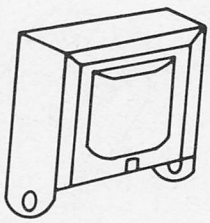

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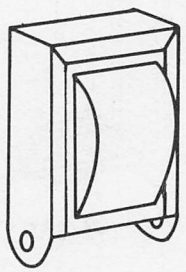
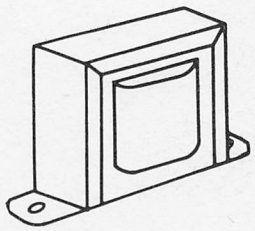


BCV

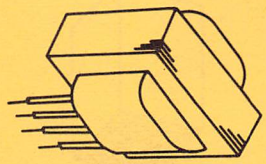


BAH

THE TRANSFORMERS SHOWN ON THIS PAGE WERE DESIGNED FOR USE IN ANTENNA ROTOR REPLACEMENT APPLICATIONS. HOWEVER, THEY ARE IDEALLY SUITED FOR OTHER SMALL 24-30 VOLT MOTOR CONTROL APPLICATIONS; SUCH AS POSITIONING OR ALIGNING CONTROL IN AUTOMATION EQUIPMENT, REMOTE MOTOR CONTROL OR SWITCHING TYPE MOTOR CONTROLS.

PRIMARY 117 VOLTS, 60 CYCLES

PART NO.	SECONDARY-CCS		SECONDARY-ICAS		MTG. TYPE	MTG. CENTERS	DIMENSIONS	
	VOLTS	AMPS	VOLTS	AMPS			H.	W. x D.
ART-1	30 (7V.Tap)	.650	24	1.65	BHH-1	1 1/2 x 1 7/8	2	2 x 3 1/4
ART-2	36	.650	24	1.95	BHH-1	1 1/2 x 1 7/8	2	2 x 3 1/4
ART-3	29 (6.5V.Tap)	.650	24	1.65	BHH	2 13/16	2	1 5/8 x 3 1/4
ART-4	36	.650	24	1.95	BCH	2 1/4	2	1 5/8 x 2 3/8
ART-5	34 (7V.Tap)	.650	24	1.8	BCV	1 7/8	2 1/4	1 3/4 x 1 15/16
ART-6	32 (7V.Tap)	.500	24	1.75	BCV	1 7/8	2 1/4	1 3/4 x 1 15/16
ART-7	41 (11.5V.Tap)	.650	24	2.50	BCH	2 1/4	2	1 3/4 x 2 3/8
ART-8	35 (4.8V.Tap)	.800	24	3.15	BAH	2 13/16	2	2 x 3 1/4
ART-9	34	.800	24	2.80	BAH	2 13/16	2	2 x 3 1/4



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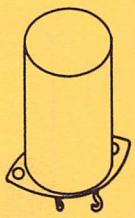
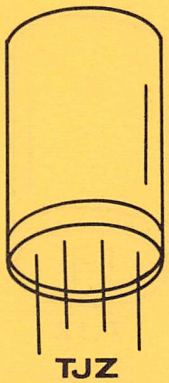
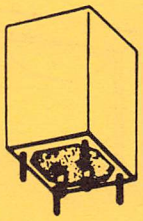


RTV RC-25



TJZ



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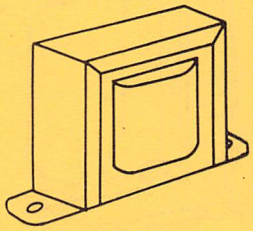

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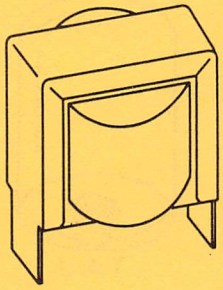


BCH

RAV-4 RSV
RSV-1 RAV-2

SEE PAGE 22, 23 & 24

Microphone, Pickup or Line to Grid

LISTED IN ORDER OF THE TURNS RATIO

Part No.	Application	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	✪ Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
MI-T56	Line to Low Z Grid	1:1.41	600CT	1,200CT	MAH	–	7/16	1/2	13/32
MI-T57	Line to Low Z Grid	1:1.41	600CT	1,200CT	RAV-2	1 – Stud	23/32	21/32 Dia.	
MI-T58	Line to Low Z Grid	1:1.41	600CT	1,200CT	RSV-1	1 – Stud	23/32	21/32 Dia.	
27A38	Line to Low Z Grid	1:1.83	600**	2,000**	RC-25	1 1/8	1 7/16	15/16 Dia.	
25A34	Line to Low Z Grid	1:1.83	600**	2,000**	RTV	11/16	1 3/16	7/8 Dia.	
GEO-73	Chopper Input	1:2	40,000**	10,000CT	3	1 1/4	2 1/4	1 25/64	1 1/16
TR-9	Transistor Input	1:2.45	5,000	30,000CT	BCH	13/16	11/16	13/16	5/8
TR-319	Transistor Input	1:2.45	5,000	30,000CT	PCT	§	11/16	3/4	9/16
25A03	Line Bridging to P.P. Grids	1:2.5	6000/8000CT	50,000CT	UTV	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
TR-10	Transistor Input	1:3.0	5,000CT	45,000	BCH	13/16	11/16	13/16	5/8
TR-320	Transistor Input	1:3.0	5,000CT	45,000	PCT	§	11/16	3/4	9/16
TR-42	Transistor Input	1:3.16	20,000	2,000CT	MAH	–	7/16	1/2	7/16
20A03	S.B. Mike and/or Plate to Grid	1:3.25 1:35	10,000 200	100,000	BAH	2 3/8	1 5/8	2 7/8	1 1/2
20A42	Tranceiver Mike and Plate to Grid	1:3.45 1:17.5	5,000 200	60,000	BAH	2 3/8	1 5/8	2 7/8	1 1/2
TR-13	Transistor Input	1:4.0	5,000CT	80,000	BCH	13/16	11/16	13/16	5/8
TR-323	Transistor Input	1:4.0	5,000CT	80,000	PCT	§	11/16	3/4	9/16
GEO-69	Chopper Input	1:4.0	20,000CT	12,500CT	3	1 1/4	2 1/4	1 25/64	1 1/16
GEO-70	Chopper Input	1:4.0	50,000CT	800,000CT	4	13/16 x 1	2 3/8	1 1/2	1 5/16
GEO-71	Chopper Input	1:4.0	50,000CT	800,000CT	6	1 1/4 x 1 1/4	2 3/4	2	2
TR-14	Transistor Input	1:4.08	20,000	1,200	BCH	13/16	11/16	13/16	5/8
TR-324	Transistor Input	1:4.08	20,000	1,200	PCT	§	11/16	3/4	9/16
TR-44	Transistor Input	1:4.08	20,000	1,200	MAH	–	7/16	1/2	7/16
27A81	Line or Mike to Grid	1:5	600/250/50	15,000	AF-1	1 3/64	1 5/32	13/16	13/16
TR-17	Transistor Input	1:5.0	20,000	800CT	BCH	13/16	11/16	13/16	5/8
TR-327	Transistor Input	1:5.0	20,000	800CT	PCT	§	11/16	3/4	9/16
TR-226	Mike or V.C. to Transistor	1:5.73	30/12/4	1,000	MAH	–	7/16	1/2	7/16
27A96	Mike or V.C. to Transistor	1:5.73	30/12/4	1,000	TJZ	–	25/32	9/16 Dia.	
TR-48	Transistor Input	1:5.75	600	20,000	MAH	–	7/16	1/2	7/16
27A130	Transistor Input	1:5.75	600/50	20,000	AG	3/4	1 3/8	1	1
GEO-72	Chopper Input	1:6.32	40,000CT	1,000CT	3	1 1/4	2 1/4	1 25/64	1 1/16
27A108	Transistor Input	1:7.07	50,000CT	1,000CT	Molded	–	.465	.310	.410
27A74	Line or Mike to S. or P.P. Grid	1:8	600#/250#/150/62.5	38,400CT#	YY	1 1/2	2 3/4	2	1 5/8
GEO-68	Chopper Input	1:8	10,000CT**	640,000CT	3	1 1/4	2 1/4	1 25/64	1 1/16
TR-24	Transistor Input	1:8.17	100,000	1,500CT	BAH	1 3/8	3/4	1 5/8	13/16
TR-334	Transistor Input	1:8.17	100,000	1,500CT	PCT-3	§	13/16	1	7/8
GEO-19	Line to P.P. Grids	1:8.5	500**/125CT	36,000CT**	1	1 – Hole	1 3/8	15/16 Dia.	
MI-T103	Mike or Line to S. or P.P. Grids	1:9.1	600/250/50	50,000CT	BAH	1 3/8	3/4	1 5/8	13/16
MI-T104	Mike or Line to S. or P.P. Grids	1:9.1	600/250/50	50,000CT	RAV-4	1 1/8	1 7/16	7/8 Dia.	
MI-T105	Mike or Line to S. or P.P. Grids.	1:9.1	600/250/50	50,000CT	RSV	1 1/8	1 7/16	7/8 Dia.	
25A01	Mike, Pickup or Line to Grid	1:9.1	600/150CT#	50,000CT#	UTV	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
25A02	Line to S. or P.P. Grids	1:9.1	600/150CT#	50,000CT#	UTV*	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
25A07	Line to S. or P.P. Grids	1:9.1	600/250/150/50	50,000#	UTV	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
25A09	Line to S. or P.P. Grids	1:9.1	600/333/250/200/150/50	50,000#	UTV	2 19/64 x 1 55/64	3 3/16	3 1/16	2 5/8
27A04	Line to S. or P.P. Grids	1:9.1	600/150CT#	50,000CT#	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16
27A07	Mike, Pickup or Line to S. or P.P. Grids	1:9.1	600/250/150/50	50,000CT#	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16
27A120	Line to S. or P.P. Grids	1:9.1	600/150**	50,000CT**	YY	1 9/16 x 1 3/8	2 15/16	2 1/4	2 7/64
27A123	Mike, Pickup or Line to S. or P.P. Grids	1:9.1	600/250/150/50	50,000CT**	YY	1 9/16 x 1 3/8	2 15/16	2 1/4	2 7/64
20A80	Mike and/or Plate to Grid	1:10 1:31.6	1,000 100	100,000	BAH	1 3/4	1 3/16	2 1/8	1 1/4
MI-T147	Mike, Pickup or Line to Grid	1:10	600/250/50	60,000	MAH	–	7/16	1/2	7/16
MI-T155	Mike, Pickup or Line to Grids	1:10	600/250/50	60,000CT	BAH	1	5/8	1 7/32	3/4
20A00	Line to S. or P.P. Grids	1:10	600/500CT	60,000CT	BAH	2	1 3/8	2 3/8	1 1/4
20A05	Line to S. or P.P. Grids	1:10	600/500CT	60,000CT	RTV	1 5/16 x 1 5/16	2	1 1/2 Dia.	

CONTINUED NEXT PAGE

** Split CT Winding
# Balanced Winding
§ Printed circuit mounting, see Page 10 for complete listing
* Shielded for -90DB hum reduction
✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Input

Microphone, Pickup or Line to Grid

continued

LISTED IN ORDER OF THE TURNS RATIO

Part No.	Application	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
25A17	Mike, Pickup, or Line to Grid	1:10	500/200/50	50,000	UTV	1 1/8 x 1 1/8	2	1 1/2	1 1/2
25A59	Mike, Pickup or Line to P.P. Grids	1:10	500/200/50	50,000CT	UTV	1 1/8 x 1 1/8	2	1 1/2	1 1/2
25A08	Mike, Pickup or Line to S. or P.P. Grids	1:10	600/333/250/200/150/50	60,000CT**	UTV	2 19/64 x 1 55/64	3 3/16	3 1/16	2 5/8
25A27	Mike, Pickup or Line to Grid	1:10	600,500/250,200/50	50,000	RTV	11/16	1 3/16	7/8 Dia.	
25A28	Mike, Pickup or Line to S. or P.P. Grids	1:10	600,500/250,200/50	50,000CT	RTV	11/16	1 3/16	7/8 Dia.	
20A51	Mike, Pickup or Line to S. or P.P. Grids	1:10	500/333/250/200/125/50	50,000CT**	RAV	2 1/4	2 5/8	1 3/4 Dia.	
25A50	Mike, Pickup or Line to Grid	1:10	600,500/250,200/50	50,000	Plug-in	Octal	1 15/32	1 3/32 Dia.	
25A51	Mike, Pickup or Line to S. or P.P. Grids	1:10	600,500/250,200/50	50,000CT	Plug-in	Octal	1 15/32	1 3/32 Dia.	
25A58	Mike, Pickup or Line to S. or P.P. Grids	1:10	600,500/333/250,200/150,125/50	50,000CT**	UTV	1 1/8 x 1 1/8	2	1 1/2	1 1/2
25A16	Mike, Pickup or Line to Grid	1:10	600,500/333/250,200/150,125/50	50,000	UTV	1 1/8 x 1 1/8	2	1 1/2	1 1/2
25A117	Mike, Pickup or Line to Grid	1:10	500/250/50	50,000	UTV	Inserts	1 1/4	7/8	7/8
25A118	Mike, Pickup or Line to P.P. Grids	1:10	500/250/50	50,000CT	UTV	Inserts	1 1/4	7/8	7/8
GEO-10	Mike or Line to P.P. Grids	1:10	500CT**	50,000CT**	3	1 1/4	2 1/4	1 25/64	1 1/16
GEO-13	Mike or Line to P.P. Grids	1:10	500CT**	50,000CT**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
27A20	Mike, Pickup or Line to Grid	1:10	500CT/200CT/50	50,000	RSV	1 1/8	1 7/16	15/16 Dia.	
27A21	Mike, Pickup or Line to P.P. Grids	1:10	500CT/200CT/50	50,000CT	RSV	1 1/8	1 7/16	15/16 Dia.	
27A94	Mike, Pickup or Line to Grid	1:10	600/250/50	60,000	TJZ	–	25/32	9/16 Dia.	
27A83	Mike, Pickup or Line to P.P. Grids	1:10	600/250/50	60,000CT	AF-1	1 3/64	1 5/32	13/16	13/16
25A103	Mike or Bal. Line to Grid	1:10	600CT**	60,000	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
25A102	Mike or Line to Grid	1:10	600/250/50	60,000	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
TR-26	Crystal to Line	1:10	50,000	500CT	BCH	13/16	11/16	13/16	5/8
TR-336	Crystal to Line	1:10	50,000	500CT	PCT	–	11/16	3/4	9/16
25A30	Crystal to Line	1:10	50,000	600,500/250,200/50	RTV	11/16	1 3/16	7/8 Dia.	
25A53	Crystal to Line	1:10	50,000	600,500/250,200/50	Plug-in	Octal	1 15/32	1 3/32 Dia.	
25A101	Bal. Line or Mike to Grid	1:10.5	600CT**	66,000	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
20A39	S/DB Mike, Line or Mixer to Grid	1:11	500#CT/200#CT/250/50	60,000	GGV	2 x 1 9/16	3 1/8	2 5/8	2 3/8
GEO-18	Mike, Pickup or Line to P.P. Grids	1:11	500CT**	60,000CT**	1	1 - Hole	1 3/8	15/16 Dia.	
25A72	Mike, Pickup or Line to S. or P.P. Grid	1:11	600,500/333/250,200/150,125/50	60,000CT**	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
25A73	Mike, Pickup or Line to S. or PP Grid Multiple Alloy Shields	1:11	600,500/333/250,200/150,125/50	60,000CT**	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
27A136	Mike, Pickup or Line to S. or P.P. Grid	1:11	600,500/333/250,200/150,125/50	60,000CT**	YY	1 3/8 x 1 13/16	3 1/8	2 1/16	2 5/16
27A70	Mike or Line to Grid	1:11.3	600#CT/250#CT/150/62.5	77,000	YY	1 1/2	2 1/2	1 3/4	1 7/16
27A71	Mike or Line to Grid	1:11.3	600#CT/250#CT/150/62.5	77,000	YY	1 3/16	2 1/4	1 1/4	1 1/16
25A11	Mike, Pickup or Line to P.P. Grids	1:11.5	600/333/250/200/150/50	80,000CT**	UTV	2 19/64 x 1 55/64	3 3/16	3 1/16	2 5/8
25A18	Mike, Pickup or Line to P.P. Grids	1:11.5	600/333/250/200/150/50	80,000CT**	UTV	1 1/8 x 1 1/8	2	1 1/2	1 1/2
25A75	Mike, Pickup or Line to P.P. Grids Multiple Alloy Shield	1:11.5	600,500/333/250,200/150,125/50	80,000CT**	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8

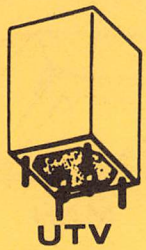
\# Balanced Winding

** Split C.T. Winding

27 SERIES GEO SERIES

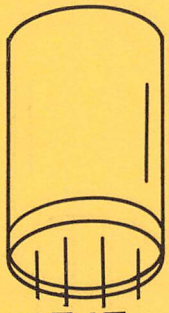
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

CONTINUED NEXT PAGE



UTV

PLUG IN



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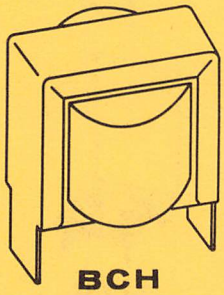

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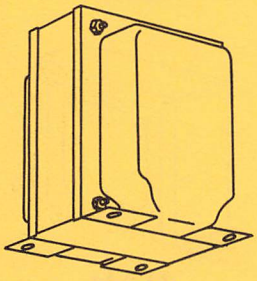
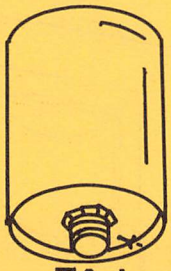


GGV



TAJ

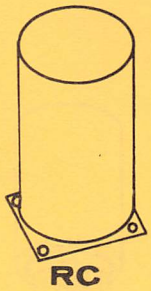
PCT PCT-3

SEE PAGE 10 FOR SIZE AND COMPLETE PCT LISTING

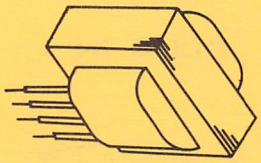
RSV

SEE PAGE 22, 23 & 24

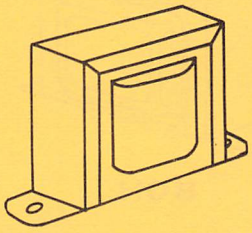
FOR MTG. TYPES NOT SHOWN HERE SEE PAGE 144



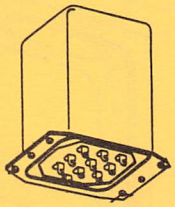
RC



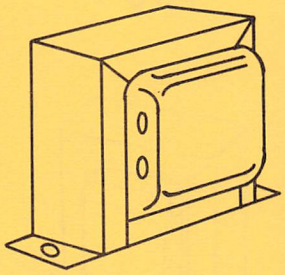
MAH



BAH (leads)
BHH (lugs)



TAV (leads)
TTV (lugs)



BGV

RTV

RAV-1 RAV-2
RSV-1 RAV

SEE PAGE 22, 23 & 24

FOR MTG. TYPES NOT SHOWN HERE SEE PAGE 144

Microphone, Pickup or Line To Grid

continued

LISTED IN ORDER OF THE TURNS RATIO

Part No.	Application	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	Mtg Type ✪	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
GEO-5	Mike or Pickup to S. or P.P. Grids	1:11.75	1000/666/466/400/250/135/100/34	137,000CT**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
GEO-76	Mike or Pickup to S. or P.P. Grids	1:11.75	1000/666/466/400/250/135/100/34	137,000CT**	6	1 1/4 x 1 1/4	2 3/4	2	2
20A08	Mike, Pickup or Line to Grid	1:12	500CT/333/200CT/125/67.5CT/50	72,000	BAH	1 3/4	1 3/16	2 1/16	1 1/4
25A100	Mike, Pickup or Line to Grid	1:12	600/250/50	86,500	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
25A88	Mike or Line to Grid	1:12.6	500/200/50	80,000	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
25A90	Mike or Line to Grid	1:12.6	500/200/50	80,000	RC	1 13/16 x 1 13/16	2 7/8	2 3/16	2 3/16
25A23	Line to S. or P.P. Grids	1:13	600/150CT	100,000CT#	TAV	2	1 3/4	2 3/8	1 1/2
25A25	Line to S. or P.P. Grids	1:13	600/150CT	100,000CT#	TTV	2	1 3/4	2 3/8	1 1/2
27A09	Line to S. or P.P. Grids	1:13	600/150CT	100,000CT#	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
27A126	Line to S. or P.P. Grids	1:13	600/150	100,000**	YY	1 x 1	2 9/64	1 35/64	1 35/64
20A31	Mike or Line to P.P. Grids	1:13.3	500/333/200/125/50	89,000CT	BHH	2 13/16	2	3 1/4	1 3/4
25A121	Mike or Line to Grid	1:13.3	500/333/200/125/50	89,000	TAV	2 3/8 x 1 1/2	2 11/16	2 3/4	2 3/16
25A114	Mike or Line to Grid	1:13.6	200**	36,000	Plug-in	9 Pin-Octal	2 1/2	1 1/4 Dia.	
25A115	Mike or Line to Grid – 90 DB Shielding	1:13.6	200**	36,000	Plug-in	9 Pin-Octal	2 1/2	1 1/4 Dia.	
25A33	Mike or Line to Grid	1:14	250CT	50,000	RAV†	1 1/2	1 1/2	1 1/16 Dia.	
27A43	Mike or Line to P.P. Grids	1:14	250CT to 500CT	50,000CT to 100,000CT	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
27A139	Mike or Line to P.P. Grids	1:14.1	600,500CT/333/250,250CT/150,125/50	100,000**	YY	1 x 1	2	1 1/2	1 1/2
20A38	S/DB Mike or Line to P.P. Grid	1:14.1	500/333/200/125/50	100,000CT	BGV	2 3/8	2 3/8	2 7/8	2 1/4
27A14	Mike or Line to P.P. Grids	1:14	600CT/250CT/150/62.5	117,600CT	4 A	1 1/2	2 3/8	1 1/2	1 1/4
27A72	Mike or Line to S. or P.P. Grids – 90 DB Shielding	1:14.1	600#/250#/150/62.5	117,600CT	YY	1 1/2	2 3/4	2	1 5/8
27A73	Mike or Line to S. or P.P. Grids	1:14.1	600#/250#/150/62.5	117,600CT	YY	1 1/2	2 1/2	1 3/4	1 7/16
27A76	Mike or Line to S. or P.P. Grids	1:14.1	600#/250#/150/62.5	117,600CT#	YY	1 1/2	2 1/2	1 3/4	1 7/16
MI-T246	Chopper Input	1:14.1	100,000CT	500CT	RAV	–	13/32	5/16 Dia.	
25A45	Chopper Input	1:14.1	100,000CT	500**	RTV	11/16	1 3/16	7/8 Dia.	
25A61	Crystal / High Impedance to Line	1:14.1	100,000**	600,500/333/250,200/150,125/50	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
TR-28	Crystal to Transistor	1:14.1	200,000	1,000	BAH	1 3/8	3/4	1 5/8	13/16
TR-267	Crystal to Transistor	1:14.1	200,000	1,000	BAH	1 1/16	5/8	1 9/32	11/16
MI-T13	Crystal to Transistor	1:14.1	200,000	1,000	MAH	–	3/8	3/8	11/32
MI-T30	Crystal to Transistor	1:14.1	200,000	1,000	MAH	–	3/8	3/8	3/8
TR-206	Crystal to Transistor	1:14.1	200,000	1,000	MAH	–	7/16	3/4	5/8
TR-54	Crystal to Transistor	1:14.1	200,000	1,000	MAH	–	7/16	1/2	7/16
TR-338	Crystal to Transistor	1:14.1	200,000	1,000	PCT-3	–	13/16	1	7/8
TR-142	Crystal to Transistor	1:14.1	200,000	1,000	Molded	–	.312	.426	.400
MI-T207	Crystal to Transistor	1:14.1	200,000	1,000	RAV	–	13/32	5/16 Dia.	
27A54	Crystal to Transistor	1:14.1	200,000	1,000	Molded	–	9/16	7/8	3/4
27A109	Crystal to Transistor	1:14.1	200,000	1,000	Molded	–	.465	.310	.410
27A69	Crystal to Transistor Hyperm Shield	1:14.1	200,000	1,000	Molded	–	7/16	31/64	9/16
MI-T14	Crystal to Transistor	1:14.1	200,000	1,000	RAV-1		27/64	25/64	27/64
MI-T31	Crystal to Transistor	1:14.1	200,000	1,000	RAV-2	1 – Stud	41/64	17/32 Dia.	
MI-T15	Crystal to Transistor	1:14.1	200,000	1,000	RSV-1	1 – Stud	9/16	7/16 Dia.	
MI-T32	Crystal to Transistor	1:14.1	200,000	1,000	RSV-1	1 – Stud	11/16	17/32 Dia.	
TR-119	Crystal to Transistor	1:14.1	200,000CT	1,000CT	BAH	1 3/8	3/4	1 5/8	13/16
TR-214	Crystal to Transistor	1:14.1	200,000CT	1,000CT	MAH	–	7/16	3/4	5/8

CONTINUED NEXT PAGE

\# Balanced Winding
** Split C.T. Winding
† Supplied with Condenser Clamp for mounting

✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

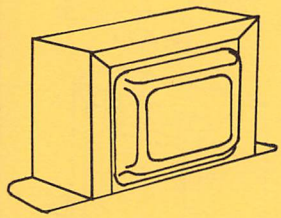
Input

Microphone, Pickup or Line To Grid

continued
LISTED IN ORDER OF THE TURNS RATIO

Part No.	Application	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	✪ Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D
TR-143	Crystal to Transistor/ Chopper	1:14.1	200,000CT	1,000CT	Molded	—	.312	.426	.400
MI-T224	Crystal to Transistor/ Chopper	1:14.1	200,000CT	1,000CT	RAV	—	13/32	5/16 Dia.	
27A57	Crystal to Transistor/ Chopper	1:14.1	200,000CT	1,000CT	Molded	—	9/16	7/8	3/4
27A107	Crystal to Transistor/ Chopper	1:14.1	200,000CT	1,000CT	Molded	—	.465	.310	.410
20A41	D.B. Mike to Grid	1:14.2	200CT	50,000	Z	Cable	2	1 Dia.	
27A02	Line to P.P. Grid	1:15	600CT#	135,000CT	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
GEO-20	Mike, Pickup to P.P. Grid	1:15.1	500**	114,000**	1	1 - Hole	1 3/8	15/16 Dia.	
25A10	Mike, Pickup or Line to P. P. Grids	1:15.5	500/333/200/ 125/50	120,000CT#	UTV	2 19/64 x 1 55/64	3 3/16	3 1/16	2 5/8
25A89	Line to P.P. Grid, Humbucking	1:15.5	500/ 200/50	120,000**	RC-50	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
25A74	Mike, Pickup or Line to P. P. Grid	1:15.5	600,500/333/ 250, 200/150, 125/50	120,000**	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
20A34	Mike, Line to Grid	1:15.8	400 CT	100,000	BAH	1 3/4	1 3/16	2 1/8	1 1/4
TR-30	Transistor Input	1:15.8	50,000	200CT	BCH	13/16	11/16	13/16	5/8
TR-340	Transistor Input	1:15.8	50,000	200CT	PCT	—	11/16	3/4	9/16
20A21	Mike to S. Grid	1:17	200CT	57,000	BHV	2	2	2 3/8	1 5/8
GEO-15	Mike, Line to P.P. Grid	1:17	500/333/233/ 200/125/67.5/ 50/17#	145,000**	2	1	1 11/16	1 1/16	7/8
GEO-77	Mike, Line to P.P. Grid 5 Interleaved Cases	1:17	500/333/233/ 200/125/67.5/ 50/17#	145,000**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
GEO-16	Mike, Line to P.P. Grids	1:17	500**	145,000**	2	1	1 11/16	1 1/16	7/8
GEO-17	Mike, Line to P.P. Grids	1:17	500**	145,000**	1	1 - Hole	1 3/8	15/16 Dia.	
25A79	3 Isolated Lines or Pads to S. or P. P. Grids Hyperm Shields	1:17.2	250,200/50/30 Each Primary	60,000**	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
GEO-1	Mike, Line to P.P. Grids	1:17.7	500/333/233/ 200/125/67.5/ 50/17#	157,000**	3	1 1/4	2 1/4	1 25/64	1 1/16
GEO-74	Mike, Line to P.P. Grids 3 Interleaved Cases	1:17.7	500/333/233/ 200/125/67.5/ 50/17#	157,000**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
GEO-2	Mike, Line to P.P. Grids 5 Interleaved Cases	1:17.7	500/333/233/ 200/125/67.5/ 50/17#	157,000**	5	1 x 1	2 1/2	1 1/2	1 1/2
GEO-21	Mike, Line to P.P. Grids	1:17.7	500**	157,000**	2	1	1 11/16	1 1/16	7/8
20A32	Mike to S. Grid	1:20	200/70	80,000	BAH	2	1 3/8	2 3/8	1 3/8
25A116	Mike, Line to Grid	1:20	200**	80,000	Plug-In	8 Pin-Octal	1 3/4	1 3/8 Dia.	
20A10	Line to Grid	1:20	600/500CT	240,000	BGH	2 13/16	2	3 1/8	1 3/4
20A01	Line to Grid	1:20	600/500CT	240,000	FGV	2 3/8	2 3/8	2 7/8	1 7/8
20A11	Line to P. P. Grids	1:20	600/500CT	240,000CT	BGH	2 13/16	2	3 1/8	1 3/4
20A02	Line to P. P. Grids	1:20	600/500CT	240,000CT	FGV	2 3/8	2 3/8	2 7/8	1 7/8
GEO-12	Line to P. P. Grids 5 Interleaved Cases	1:20	500**	200,000**	6	1 1/4 x 1 1/4	2 3/8	2	2
TR-31	Transistor Input	1:20	40,000	100	BCH	13/16	11/16	13/16	5/8
TR-341	Transistor Input	1:20	40,000	100	PCT	—	11/16	3/4	9/16
MI-T154	Mike or Line to Grid	1:20.6	600/250/50	250,000	BAH	1	5/8	1 7/32	3/4
27A82	Mike or Line to Grid	1:20.6	600/250/50	250,000	AF-1	1 3/64	1 5/8	13/16	13/16
20A33	Mike to Grid	1:24.5	100	60,000	BAH	2	1 3/8	2 3/8	1 1/2
GEO-6	Mike, Line to P. P. Grids	1:25	500/333/233/ 200/125/ 67.5/50/17**	315,000**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
GEO-7	Mike, Line to P. P. Grids 5 Interleaved Cases	1:25	500/333/233/ 200/125/ 67.5/50/17**	315,000**	6	1 1/4 x 1 1/4	2 3/4	2	2
20A37	Mike, Line to Grid	1:25	200CT	125,000	BAV	2 3/8	2 3/8	2 7/8	1 7/8
27A138	Line to P. P. Grids	1:25.8	150	100,000CT	AH	1 1/4	1 3/4	1 5/16	1 5/16
MI-T153	Mike, Line to Grid	1:28.8	600/250/50	50,000	BAH	1	5/8	1 7/32	3/4
20A35	Mike or Mixer to Grid	1:31.6	50	50,000	BAH	1 3/4	1 3/16	2 1/8	1 1/4
20A40	Mike or Mixer to Grid	1:31.6	50CT	50,000	Z	Cable	2	1 Dia.	
25A76	Mike, Pickup or Mixer to Grid	1:31.6	60/38/30/22/ 15/10/5.5/2.5	60,000**	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
MI-T148	Mike, Line to Grid	1:31.6	200CT	200,000	BCH	17/32	7/16	17/32	7/16

PLUG IN



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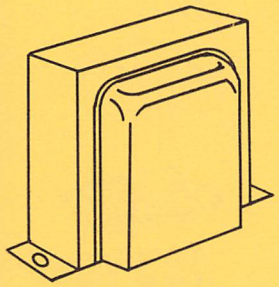

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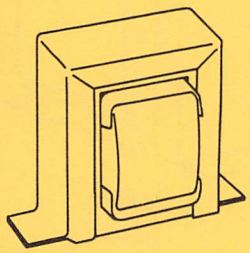

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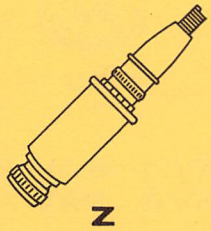

Z

** Split C. T. Winding
# Balanced Winding
✪ 27 SERIES GEO SERIES

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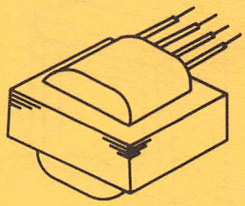
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



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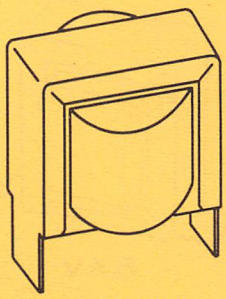

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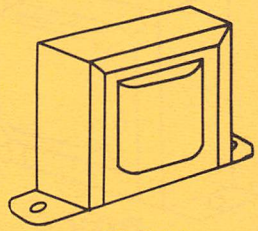

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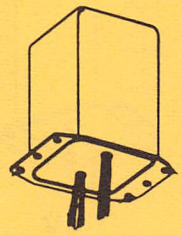

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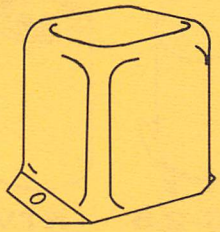

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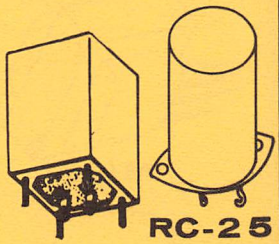

RC-25

UTV

RSV RSV-2
RAV-4
SEE PAGE 22, 23 & 24

PCT PCT-3
SEE PAGE 10 FOR SIZE AND COMPLETE PCT LISTING

FOR MTG. TYPES NOT SHOWN HERE SEE PAGE 27

Microphone, Pickup or Line To Grid

continued

LISTED IN ORDER OF THE TURNS RATIO

Part No.	Application	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
27A127	Mike to S. or P.P. Grid	1:32	120/50	125,000CT	YY	1 9/16 x 1 3/8	2.68	2.241	2.101
27A16	Mike to Grid	1:35.4	50	62,500	TSM	1 – Stud	29/32	1/2	11/16
MI-T67	Mike to Grid	1:35.4	200	250,000	MAH	–	7/16	3/4	5/8
MI-T141	Mike to Grid	1:35.4	200	250,000	MAH	–	19/32	7/8	43/64
MI-T85	Mike to Grid	1:35.4	200	250,000	BAH	1 1/16	5/8	1 9/32	19/32
MI-T68	Mike to Grid	1:35.4	200	250,000	RAV-3	1 5/32	29/32	7/8 Dia.	
MI-T86	Mike to Grid	1:35.4	200	250,000	RAV-3	1 5/32	1 3/32	7/8 Dia.	
MI-T69	Mike to Grid	1:35.4	200	250,000	RSV-2	1 5/32	29/32	7/8 Dia.	
MI-T87	Mike to Grid	1:35.4	200	250,000	RSV-2	1 5/32	1 3/32	7/8 Dia.	
27A61	Mike to Grid	1:35.4	200	250,000	Molded	–	23/32	3/4	1
27A50	Mike to Grid	1:35.4	200	250,000	Molded	–	9/16	7/8	3/4
TR-33	Transistor Input	1:35.4	250,000	200CT	BAH	1 3/8	3/4	1 5/8	13/16
TR-343	Transistor Input	1:35.4	250,000	200CT	PCT-3		13/16	1	7/8
25A24	Mike to S. or P.P. Grid	1:36	125/50	125,000CT	TAV-1	2	1 3/4	1 1/2	2 3/8
25A26	Mike to S. or P.P. Grid	1:36	125/50	125,000CT	TTV-1	2	1 3/4	1 1/2	2 3/8
27A10	Mike to S. or P.P. Grid	1:36	125/50	125,000CT	FA	1 7/16 x 1 11/16	3 1/8	2 1/16	2 5/16
GEO-8	Mike, Line to P.P. Grids	1:37.7	500/333/233/200/125/67.5/50/17	712,000**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
GEO-9	Mike, Line to P.P. Grids 5 Interleaved Cases	1:37.7	500/333/233 200/125/67.5/50/17	712,000**	6	1 1/4 x 1 1/4	2 3/4	2	2
27A36	Mike to Grid	1:40.6	82	135,000	RC-25	1 1/8	1 7/16	15/16 Dia.	
TR-34	Transistor Input	1:40.8	50,000	30CT	BCH	13/16	11/16	13/16	5/8
TR-344	Transistor Input	1:40.8	50,000	30CT	PCT	–	11/16	3/4	9/16
25A29	Low Z to Grid	1:40.8	30/7.5	50,000	RTV	11/16	1 3/16	7/8 Dia.	
25A119	Low Z to Grid	1:40.8	30/7.5	50,000	UTV	Inserts	1 1/4	7/8	7/8
25A52	Low Z to Grid	1:40.8	30/7.5	50,000	Plug-in	8 Pin–Octal	1 15/32	1 3/32 Dia.	
MI-T156	Mike or V.C. to Grid Intercom.	1:40.8	30/12/4	50,000	BAH	1	5/8	1 7/32	3/4
MI-T149	Mike or V.C. to Grid Intercom.	1:40.8	30/12/4	50,000	MAH	–	7/16	1/2	7/16
27A84	Mike or V.C. to Grid Intercom.	1:40.8	30/12/4	50,000	AF-1	1 3/64	1 5/32	13/16	13/16
27A95	Mike or V.C. to Grid Intercom.	1:40.8	30/12/4	50,000	TJZ	–	25/32	9/16 Dia.	
27A22	Mike or V.C. to Grid	1:40.8	30/12/4	50,000	RC-25	1 1/8	1 7/16	15/16 Dia.	
25A19	Dynamic Mike to S. or P.P. Grids	1:41	30	50,000**	UTV-1	1 1/8 x 1 1/8	2	1 1/2	1 1/2
25A126	Mike to Grid	1:41	50	85,000	RSV	1 3/16 x 1 1/4	1 11/16	1 15/16	1
TR-35	Transistor Input or Mike to Grid with Pri. & Sec. Reversed	1:44.7	100,000	50	BAH	1 3/8	3/4	1 5/8	13/16
TR-345	Transistor Input or Mike to Grid with Pri. & Sec. Reversed	1:44.7	100,000	50	PCT-3	–	13/16	1	7/8
27A135	Transistor Input or Mike to Grid with Pri. & Sec. Reversed	1:44.7	100,000	50	RC-25	1 1/8	1 7/16	15/16 Dia.	
TR-55	Transistor Input or Mike to Grid with Pri. & Sec. Reversed	1:44.7	100,000	50	MAH	–	7/16	1/2	7/16
GEO-14	Mike to P.P. Grids	1:47	200**	442,000**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
MI-T160	Mike, Line to Grid	1:50	200	500,000	BAH	1	5/8	1 7/32	3/4
MI-T133	Mike, Line to Grid	1:50	200	500,000	BAH	1 3/8	3/4	1 5/8	13/16
MI-T134	Mike, Line to Grid	1:50	200	500,000	RAV-4	1 1/8	1 7/16	7/8 Dia.	
MI-T135	Mike, Line to Grid	1:50	200	500,000	RSV	1 1/8	1 7/16	7/8 Dia.	
25A32	Mike, Line to Grid	1:50	200	500,000	RTV	11/16	1 3/16	7/8 Dia.	
27A87	Mike, Line to Grid	1:50	200	500,000	AF-1	1 3/64	1 5/32	13/16	13/16
TR-36	Transistor Input	1:50	500,000	200CT	BAH	1 3/8	3/4	1 5/8	13/16
TR-346	Transistor Input	1:50	500,000	200CT	PCT-3	–	13/16	1	7/8
GEO-3	Low Z to P.P. Grids	1:51	60/44/30/25/15/7.5/5/1.25	157,000**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
GEO-75	Low Z to P.P. Grids 3 Interleaved Cases	1:51	60/44/30/25/15/7.5/5/1.25	157,000**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
GEO-4	Low Z to P.P. Grids 5 Interleaved Cases	1:51	60/44/30/25/15/7.5/5/1.25	157,000**	5	1 x 1	2 1/2	1 1/2	1 1/2
25A123	Dynamic Mike, Pickup to S. Grid	1:60	30/15/8/4	106,000	TAV	2 3/8 x 1 1/2	2 11/16	2 3/4	2 3/16

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** Split C.T. Winding

27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Input

Microphone, Pickup or Line to Grid Continued

LISTED IN ORDER OF THE TURNS RATIO

Part No.	Application	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
20A36	Mike, Line to P.P. Grids	1:63	100	400,000CT	BAV	2 3/8	2 3/8	2 7/8	1 3/4
27A75	Dynamic Mike, Pickup to S. Grid	1:65.2	30	127,500	YY	1 1/2	2 1/2	1 3/4	1 7/16
MI-T106	Voice Coil to Grid	1:79	8/4	50,000CT	BAH	1 1/8	3/4	1 5/8	13/16
20A12	Voice Coil to Grid	1:79	8/4	50,000	BAH	1 3/4	1 3/16	2 1/16	1 3/4
MI-T107	Voice Coil to Grid	1:79	8/4	50,000CT	RAV-4	1 1/8	1 7/16	15/16 Dia.	
MI-T108	Voice Coil to Grid	1:79	8/4	50,000CT	RC-25	1 1/8	1 7/16	15/16 Dia.	
20A04	Voice Coil to Grid	1:80	6/3	38,400	BAH	2	1 3/8	2 3/8	1 1/4
20A09	Mike, Line to Grids	1:83.3	100	700,000CT	BAH	2 3/8	1 5/8	2 13/16	1 1/2
20A15	Voice Coil to Grid Intercom.	1:124	3.5	50,000	TA7J	1 3/16 Spade Lugs	1 3/32	1 3/32 Dia.	
20A30	Mike, Line to Grid	1:137	70	1,300,000	BGV	1 1/2	1 7/16	1 13/16	1 1/4

Intercom and Tranceiver

Part No.	Application	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	Mtg. ✪ Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D
20A03	Mike and/or Plate to Grid	1:3.25 1:35	10,000 200	100,000	BAH	2 3/8	1 5/8	2 7/8	1 1/2
20A42	Mike and/or Plate to Grid	1:3.45 1:17.5	5,000 200	60,000	BAH	2 3/8	1 5/8	2 7/8	1 1/2
TR-226	Mike or V.C. to Transistor	1:5.73	30/12/4	1,000	MAH	-	7/16	1/2	7/16
27A96	Mike or V.C. to Transistor	1:5.73	30/12/4	1,000	TJZ	-	25/32	9/16 Dia.	
20A80	Mike and/or Plate to Grid	1:10 1:31.6	1,000 100	100,000	BAH	1 3/4	1 3/16	2 1/8	1 1/4
MI-T156	Mike or V.C. to Grid	1:40.8	30/12/4	50,000	BAH	1	5/8	1 7/32	3/4
MI-T149	Mike or V.C. to Grid	1:40.8	30/12/4	50,000	MAH	-	7/16	1/2	7/16
27A84	Mike or V.C. to Grid	1:40.8	30/12/4	50,000	AF-1	1 3/64	1 5/32	13/16	13/16
27A95	Mike or V.C. to Grid	1:40.8	30/12/4	50,000	TJZ	-	25/32	9/16 Dia.	
27A22	Mike or V.C. to Grid	1:40.8	30/12/4	50,000	RSV	1 1/8	1 7/16	15/16 Dia.	
GEO-3	Mike or V.C. to Grid	1:51	60/44/30/25/15/7.5/5/1.25	157,000**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
GEO-75	Mike or V.C. to Grid 3 Interleaved Cases	1:51	60/44/30/25/15/7.5/5/1.25	157,000**	4	1 x 13/16	2 3/8	1 1/2	1 5/16
GEO-4	Mike or V.C. to Grid 4 Interleaved Cases	1:51	60/44/30/25/15/7.5/5/1.25	157,000**	5	1 x 1	2 1/2	1 1/2	1 1/2
25A123	Mike or V.C. to Grid	1:60	30/15/8/4	106,000	TAV	2 3/8 x 1 1/2	2 11/16	2 3/4	2 3/16
MI-T106	Voice Coil to Grid	1:79	8/4	50,000CT	BAH	1 1/8	3/4	1 5/8	13/16
20A12	Voice Coil to Grid	1:79	8/4	50,000	BAH	1 3/4	1 3/16	2 1/16	1 3/4
MI-T107	Voice Coil to Grid	1:79	8/4	50,000CT	RAV-4	1 1/8	1 7/16	15/16 Dia.	
MI-T108	Voice Coil to Grid	1:79	8/4	50,000CT	RC-25	1 1/8	1 7/16	15/16 Dia.	
20A04	Voice Coil to Grid	1:80	6/3	38,400	BAH	2	1 3/8	2 3/8	1 1/4
20A15	Voice Coil to Grid	1:124	3.5	50,000	TA7J	1 3/16 Spade Lugs	1 3/32	1 3/32 Dia.	
24S80	Transceiver Output 2 Watts		10,000	2,000 and 50	BAH	2	1 3/8	2 3/8	1 3/8
22S119	Transceiver Output 5 Watts		10,000	2,000 and 50	BAH	2 3/8	1 5/8	2 7/8	1 1/2

** Has Split Center Tap

✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

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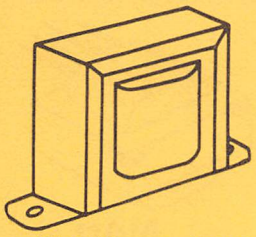
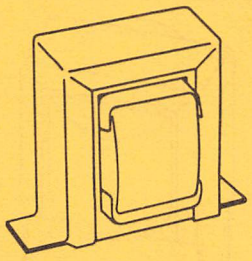


BAH BHH



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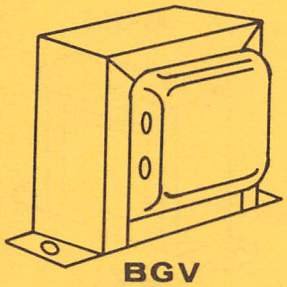

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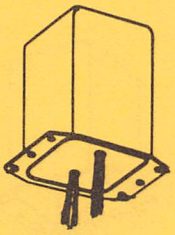

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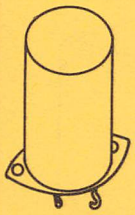
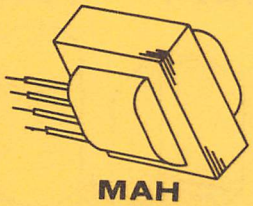


RC-25 RTV



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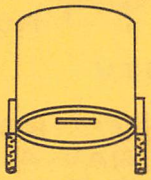
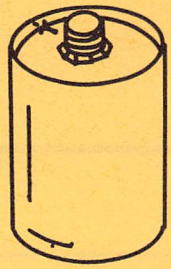


TA7J

RSV RAV-4

SEE PAGE 22, 23 & 24



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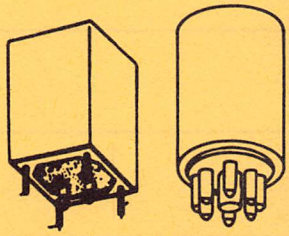
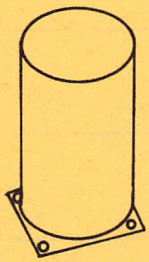
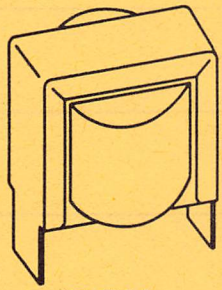


UTV PLUG IN



RC-50



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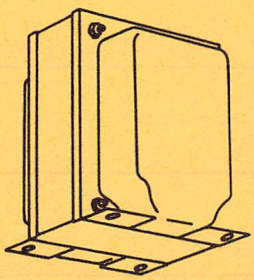


GGV
GTV
(With lug board)

RAV RSV

SEE PAGE 22, 23 & 24

PCT

SEE PAGE 10 FOR SIZE AND COMPLETE PCT LISTING

Line or Microphone to Line

APPLICABLE FOR LINE TO LINE, MIKE TO LINE, MIXING LINES TO SINGLE LINES. continued

Part No.	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	Power In Milliwatts	Mtg. ✪ Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D
25A104	1:1	600/300/200CT 110/50 **	600 **	1	TAJ	3/8 HOLE	1 3/4	1 3/8 Dia.	
MI-T41	1:1	500	500	4	MAH	—	7/16	1/2	13/32
MI-T42	1:1	500	500	4	RAV	1-STUD	45/64	41/64 Dia.	
MI-T43	1:1	500	500	4	RSV	1-STUD	45/64	41/64 Dia.	
25A31	1:1.55	250,200/50	600,500/250/ 200/50	6	RTV	11/16	1 3/16	7/8 Dia.	
27A37	1:1	600 **	600CT	6.3	RC-25	1 1/8	1 7/16	15/16 Dia.	
25A54	1:1.55	250,200/50	600,500/250, 200/50	6.3	Plug-In	8 Pin-Octal	1 15/32	1 3/32 Dia.	
25A53	10:1	50,000	600,500/250, 200/50	6.3	Plug-In	Octal	1 15/32	1 3/32 Dia.	
25A30	10:1	50,000	600,500/250, 200/50	6.3	RTV	11/16	1 3/16	7/8 Dia.	
20A53	1:1	500,600CT	500,600CT	10	RAV	2 1/4	2 5/8	1 3/4 Dia.	
MI-T166	1:1	600/250/50	600/250/50	10	BAH	1	3/4	1 7/32	3/4
27A90	1:1	600/250/50	600/250/50	10	AF-1	1 3/64	1 5/32	13/16	13/16
27A29	1:1	600/250/50	600/250/50	10	RC-25	1 1/8	1 7/16	15/16 Dia.	
MI-T127	1:1.55	250/50	600/250/50	20	BAH	1 3/8	3/4	1 5/8 Dia.	13/16
MI-T128	1:1.55	250/50	600/250/50	20	RAV	1 1/8	1 7/16	15/16 Dia	
MI-T129	1:1.55	250/50	600/250/50	20	RSV	1 1/8	1 7/16	15/16 Dia.	
MI-T124	1:9.1	50,000CT	600/250/50	20	BAH	1 3/8	3/4	1 5/8	13/16
MI-T125	1:9.1	50,000CT	600/250/50	20	RAV	1 1/8	1 7/16	15/16 Dia.	
MI-T126	1:9.1	50,000CT	600/250/50	20	RSV	1 1/8	1 7/16	15/16 Dia.	
MI-T246	1:14.1	100,000CT	500CT	25	RAV	—	13/32	5/16 Dia.	
25A63 †	1:1	600/150 **	600/150 ** 600/150 **	30	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
25A61	14.1:1	100,000 **	600 to 50	30	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
27A03	1:1	600 **	600 **	31	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
27A121	1:1	600/150CT	600/150CT	31	YY	1 9/16 x 1 3/8	2.930	2.241	2.101
25A04	1:1	600/150CT	600/150CT	31	UTV	1 7/16 x 1 11/16	3 1/8	2 1/16	2 5/16
27A05	1:1	600/150CT	600/150CT	31	FA	1 7/16 x 1 11/16	3 1/8	2 1/16	2 5/16
25A60 †	1:1	600,500/250, 200/50	600,500/250, 200/50	31	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
27A48	1:1	600 to 50	600 to 50	31	RC-50	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
27S111	1:1	600CT	600CT	50	Molded	—	.465	.310	.410
27S79	1:1	600 **/250 **	600 **/250 **	50	YY	1 1/2	2 3/4	2	1 5/8
25A113	1:1	600 **	600 **	50	TAJ	3/8 HOLE	1 3/4	1 3/8 Dia.	
25A112	1:1	600/250/50	600/250/50	50	TAJ	3/8 HOLE	1 3/4	1 3/8 Dia.	
27S110	1:1	10,000CT	10,000CT	50	Molded	—	.465	.310	.410
25A78 †	1:1	600,500/333/ 250,200/150, 125/50	600,500/333/ 250,200/150, 125/50	63	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
25A77	1:1	600 to 50	600 to 50	100	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
TR-212	1:1.1	500CT	600CT	100	MAH	—	7/16	3/4	5/8
27S47	1:1.1	500CT	600CT	100	Molded	—	9/16	7/8	3/4
27S78	1:1	600 **/250 **	600 **/250 **	100	YY	1 15/32	2 3/8	1 1/2	1 1/4
27S77	1:1	600 **/250 **	600 **/250 **	100	YY	1 1/2	2 1/2	1 3/4	1 7/16
25A45	14.1:1	100,000CT	500**	100	RTV	11/16	1 3/16	7/8 Dia.	
TR-26	1:10	50,000	500CT	150	BCH	13/16	11/16	13/16	5/8
TR-336	1:10	50,000	500CT	150	PCT	—	11/16	3/4	9/16
25A22	1:1	500/333/250, 200/125/50	500/333/250, 200/125/50	500	UTV	1 1/8 x 1 1/8	2	1 1/2	1 1/2
20A06	1:1:1:1	600,500CT 250,200CT 50,35	600,500CT 250,200CT 50,35	500	RTV	1 3/8 x 1 3/8	2	1 5/8 Dia.	
25A92	1:1	500/200/50	500/200/50	630	RC-50	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
25S10	1:1	500CT	500 **	1W	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
25A05	1:1	600/150 **	600/150 **	1W	UTV	1 7/8 x 2	4 1/4	2 5/8	3 1/16
20A29	1:1:1:1	5,000 to 15,000CT	5,000 to 15,000CT	1W	BAV	2	1 7/8	2 3/8	1 1/2
25A15	1:1	500/333/250, 200/125/50	500,333/250, 200/125/50	1W	UTV	2 19/64 x 1 55/64	3 3/16	3 1/16	2 5/8
20A94	1:1/1:1.5/ 1:2/1:3/1:6	5,000 to 15,000	MULTIPLE LINE	2W	BAH	2 13/16	2	3 1/4	2
20A07 ##	1:1:1:1	500/333/200/ 125/50	500/333/200/ 125/50	5W	BHH	2 13/16	2	3 1/4	1 3/4
20A43	1:1	500CT/200CT/ 250/50	4/8/15/500	10W	GGV	2 x 1 13/16	3 1/8	2 5/8	2 3/4
20D20	1:1	500CT/333/ 200CT/125/50	500/333/200/ 125/50	20W	GTV	2 x 1 11/16	3 3/16	2 5/8	3 1/4

** Split Center Tap. † Multiple Alloy Shields.

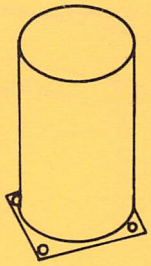
Four windings — each tapped — any combination of impedance given may be obtained.

CONTINUED NEXT PAGE

✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

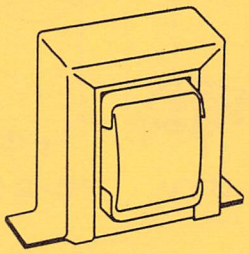
NOTES



RC

RC-25

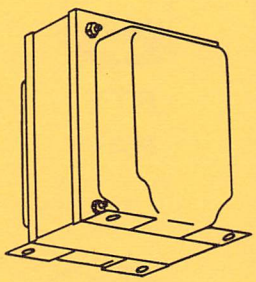
RC-25 LISTED ON PAGE 118



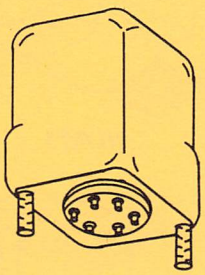
BAV

BCH BAH

LISTED ON PAGE 118



GGV



AF-1

MAH RTV UTV

LISTED ON PAGE 118

TSM

SEE PAGE 34 FOR CASE SIZE AND COMPLETE TSM LISTING.

PCT

SEE PAGE 10 FOR COMPLETE PCT LISTING

TAJ

SEE PAGE 64 FOR CASE SIZE AND COMPLETE TAJ LISTING.

LISTED IN ORDER OF THE TURNS RATIO

Interstage Transformers

APPLICABLE TO PLATE TO GRID, TRANSISTOR TO GRID OR TRANSISTOR.

Part No.	Overall Turns Ratio	Impedance in Ohms Primary	Impedance in Ohms Secondary	Unbalanced Primary MADC	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
27A119	1:1	100	100CT	100	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16
TR-233	1:1	500CT	500CT	2	BCH	9/16	1/2	9/16	1/2
TR-37	1:1	500CT	500CT	2	MAH	–	7/16	1/2	7/16
TR-1	1:1	500CT	500CT	4	BAH	1 3/8	3/4	1 5/8	13/16
TR-311	1:1	500CT	500CT	0	PCT	–	11/16	3/4	9/16
TR-240	1:1	500CT	500*	5	BAH	1	5/8	1 7/32	3/4
TR-222	1:1	500CT	500*	8	MAH	–	19/32	7/8	43/64
25A46	1:1	500*	500*	20	RTV	11/16	1 3/16	7/8 Dia.	
MI-T241	1:1	500CT	500*	8	RAV●	–	13/32	5/16 Dia.	
27A65	1:1	500CT	500*	8	Molded	–	23/32	3/4	1
27A41	1:1	500*	500*	20	RC-25	1 1/8	1 7/16	15/16 Dia.	
27A132	1:1	500CT	500CT	3	AG	3/4	1 3/8	1	1
27A92	1:1	500CT	500*	0	AF-1	1 3/64	1 5/32	13/16	13/16
27A46	1:1	500CT	500*	20	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
GEO-80	1:1	1,000*	1,000*	5	3	1 1/4	2 1/4	1 25/64	1 1/16
MI-T167	1:1	5,000CT	5,000CT	0	BAH	1	5/8	1 7/32	3/4
27A91	1:1	5,000CT	5,000CT	0	AF-1	1 3/64	1 5/32	13/16	13/16
TR-216	1:1	10,000CT	10,000CT	1	MAH	–	7/16	3/4	5/8
TR-230	1:1	10,000CT	10,000CT	0	BCH	17/32	7/16	17/32	7/16
25A42	1:1	10,000CT	10,000CT	4	RTV	11/16	1 3/16	7/8 Dia.	
MI-T247	1:1	10,000CT	10,000CT	1	RAV●	–	13/32	5/16 Dia.	
27A27	1:1	10,000CT	10,000CT	1	TSM	1 – Stud	29/32	1/2	11/16
27A59	1:1	12,000CT	12,000CT	1	Molded	–	9/16	7/8	3/4
MI-T236	1:1	12,000CT	12,000CT	1	RAV●	–	13/32	5/16 Dia.	
27A125	1:1	20,000*	20,000*	0	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
27A80§	1:1	20,000*	20,000*	0	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
25A124#	1:1	65,000	65,000		RTV	21/32	1 11/32	31/32 Dia.	
TR-38	1:1.09	6,000	5,000CT	2	MAH	–	7/16	1/2	7/16
25A93	1:1.11	30,000CT	25,000*	0	RC	2 3/32 x 2 3/32	3 1/4	2 9/16	2 9/16
TR-249	1:1.15	2,000	1,500CT	2	BAH	1 3/8	13/16	1 5/8	1
TR-2	1:1.23	5,000CT	7,500CT	1	BCH	13/16	11/16	13/16	5/8
TR-312	1:1.23	5,000CT	7,500CT	1	PCT	–	11/16	3/4	9/16
TR-39	1:1.25	4,000	2,600CT		MAH	–	7/16	1/2	7/16
TR-3	1:1.41	5,000CT	10,000CT	1	BCH	13/16	11/16	13/16	5/8
TR-313	1:1.41	5,000CT	10,000CT	1	PCT	–	11/16	3/4	9/16
20A25	1:1.41	10,000 – 20,000CT	20,000 – 40,000**	10	RTV	1 3/8 x 1 3/8	2	1 5/8 Dia.	
GEO-87	1:1.5	10,000*	22,500CT	0	4	1 x 13/16	2 3/4	1 1/2	1 5/16
GEO-83	1:1.5	10,000*	22,500*	0	4	1 x 13/16	2 3/4	1 1/2	1 5/16
27A01	1:1.5	10,000CT	22,500CT 22,500CT	10	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
GEO-27	1:1.5	10,000**	22,500**	5	2	1	1 11/16	1 1/16	7/8
GEO-31	1:1.5	10,000**	22,500**	0	1	1 – Hole	1 3/8	15/16 Dia.	
20A14	1:1.5 1:3 1:6	15,000CT 15,000 3,750	33,750 135,000CT 135,000CT	20	BAV	2 13/16	1 15/16	3 5/16	1 3/4
20A95	1:1.5	20,000CT	45,000CT	10	BAH	2 13/16	2	3 1/4	2 3/8
20A13§	1:1.5	20,000CT	45,000CT	25	GGV	1 3/4 x 1 5/8	2 25/32	2 11/32	2 3/8
25A84	1:1.5	30,000*	68,000*	0	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
TR-225	1:1.58	80-100CT	32-40*	16	MAH	–	19/32	7/8	43/64
27A68	1:1.58	80-100CT	32-40*	16	Molded	–	23/32	3/4	1
25A49	1:1.58	100*	40*	40	RTV	11/16	1 3/16	7/8 Dia.	
25A71	1:1.58	100*	40*	40	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
25A106	1:1.58	100*	40*	30	TAJ	3/8	1 3/4	1 3/8 Dia.	
GEO-81	1:1.58	1,000CT	2,500CT	5	2	1	1 11/16	1 1/16	7/8
GEO-82	1:1.58	1,000CT	2,500CT	5	4†	1 x 13/16	2 3/8	1 1/2	1 5/16
TR-231	1:1.58	1,500CT	600*	0	BCH	17/32	7/16	17/32	7/16
TR-237	1:1.58	1,500CT	600*	6	BAH	1	5/8	1 7/32	3/4
25A06	1:1.58	20,000**	50,000**	5	UTV	1 3/8 x 1 9/16	3 1/8	2 5/16	2 1/16
27A06	1:1.58	20,000**	50,000**	5	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
27A122	1:1.58	20,000**	50,000**	5	YY	1 9/16 x 1 3/8	2.93	2.241	2.101
25A87	1:1.6	30,000CT	80,000*	0	RC	1 13/16 x 1 13/16	2 7/8	2 3/16	2 3/16
25A83	1:1.6	30,000*	80,000*	.25	UTV	2 x 2 3/4	3 1/2	2 13/16	3 9/16
25A14§	1:1.6	30,000**	80,000**	10	UTV	3 x 2 7/16	4 5/16	3 15/16	3 3/8
TR-4	1:1.73	1,500	500CT		BCH	13/16	11/16	13/16	5/8

* Split C.T. Winding
** Split C.T. and Balanced Winding
§ High Level Interstage
\# Autoformer
† 5 Interleaved Cases

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● SEE PAGE 15 AND 16 FOR COMPLETE LISTING.

✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Interstage

LISTED IN ORDER OF THE TURNS RATIO

Interstage Transformers Continued

Part No.	Overall Turns Ratio	Impedance in Ohms Primary	Impedance in Ohms Secondary	Unbalanced Primary MADC	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
TR-314	1:1.73	1,500	500CT		PCT	–	11/16	3/4	9/16
TR-251	1:1.73	3,000CT	1,000CT	4	BAH	1 3/8	13/16	1 5/8	1
27A11	1:1.73	20,000**	60,000**	10	5A	1 1/2	2 1/2	1 1/2	1 1/2
TR-5	1:1.81	490CT	150CT	0	BCH	13/16	11/16	13/16	5/8
TR-315	1:1.81	490CT	150CT	0	PCT	–	11/16	3/4	9/16
TR-223	1:1.82	400-500CT	120-150*	8	MAH	–	19/32	7/8	43/64
TR-248	1:1.82	500CT	150CT	2	BAH	1 1/16	5/8	1 9/32	11/16
MI-T242	1:1.82	400-500CT	120-150*	8	RAV●	–	13/32	5/16 Dia.	
27A66	1:1.82	400-500CT	120-150*	8	Molded	–	23/32	3/4	1
25A47	1:1.82	500*	150*	20	RTV	11/16	1 3/16	7/8 Dia.	
25A69	1:1.82	500*	150*	20	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
27A42	1:1.82	500*	150*	20	RC-25	1 1/8	1 7/16	15/16 Dia.	
TR-241	1:1.83	600CT	2,000*	0	BAH	1	5/8	1 7/16	3/4
25A62	1:1.83	600*	2,000*	0	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
27A93	1:1.83	600CT	2,000*	0	AF-1	1 3/64	1 5/32	13/16	13/16
TR-6	1:1.83	10,000	3,000CT		BCH	13/16	11/16	13/16	5/8
TR-316	1:1.83	10,000	3,000CT		PCT	–	11/16	3/4	9/16
MI-T157	1:1.83	15,000	50,000		BAH	1	5/8	1 7/32	3/4
27A85	1:1.83	15,000	50,000		AF-1	1 3/64	1 5/32	13/16	13/16
27A131	1:2	125	500CT	4	AG	3/4	1 3/8	1	1
25A105	1:2	500*	2,000*	20	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
GEO-85	1:2	1,000**	250**	0	4	1 x 13/16	2 3/8	1 1/2	1 5/16
TR-263	1:2	2,000CT	500CT	2	BAH	1 3/8	13/16	1 5/8	1
TR-250	1:2	2,000CT	8,000CT	4	BAH	1 3/8	13/16	1 5/8	1
MI-T237	1:2	2,000 – 2,500CT	8,000 – 10,000*	3	RAV●	–	13/32	5/16 Dia.	
20A16	1:2	7,000 – 15,000	28,000 – 60,000CT	10	BAH	2	1 3/8	2 3/8	1 1/4
20A49	1:2	7,000 – 15,000	28,000 – 60,000CT	10	BAH	2 3/8	1 5/8	2 7/8	1 1/2
20A17	1:2	7,000 – 15,000	28,000 – 60,000CT	10	RAV	1 3/8 x 1 3/8	2	1 5/8 Dia.	
GEO-28	1:2	10,000**	250**	0	2	1	1 11/16	1 1/16	7/8
20A47	1:2	10,000	40,000	10	BAH	2 3/8	1 5/8	2 7/8	1 1/2
20A27	1:2	10,000**	40,000**	10	RTV	2 1/8 x 2 1/8	3 1/2	2 7/8 Dia.	
25A65	1:2	15,000	60,000 •	8	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
25A20	1:2	15,000	60,000	10	UTV	1 1/8 x 1 1/8	2	1 1/2	1 1/2
25A120	1:2	15,000	60,000	0	UTV	Inserts	1 1/4	7/8	7/8
25A81	1:2	15,000	60,000	0	UTV •	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
25A35	1:2	15,000	60,000	0	RTV	11/16	1 3/16	7/8 Dia.	
25A36	1:2	15,000	60,000	4	RTV	11/16	1 3/16	7/8 Dia.	
27A23	1:2	15,000	60,000	0	RC-25	1 1/8	1 7/16	15/16 Dia.	
MI-T158	1:2	15,000	60,000CT		BAH	1	5/8	1 7/32	3/4
MI-T112	1:2	15,000	60,000CT	0	BAH	1 1/8	3/4	1 5/8	13/16
MI-T113	1:2	15,000	60,000CT	0	RAV	1 1/8	1 7/16	15/16 Dia.	
MI-T114	1:2	15,000	60,000CT	0	RSV	1 1/8	1 7/16	15/16 Dia.	
27A24	1:2	15,000	60,000CT	4	RC-25	1 1/8	1 7/16	15/16 Dia.	
27A86	1:2	15,000	60,000CT	4	AF-1	1 3/64	1 5/32	13/16	13/16
27A13	1:2	15,000	60,000**	6	5B	1 1/2	2 3/4	1 5/8	1 7/8
TR-254	1:2	16,000	4,000	1	BAH	1 1/16	5/8	1 9/32	11/16
27A12	1:2	20,000*	80,000**	5	5A	1 1/2	2 1/2	1 1/2	1 1/2
25A125	1:2	24,000	600	5	RTV	21/32	1 11/32	31/32 Dia.	
TR-247	1:2.24	400CT	2,000CT	5	BAH	1 3/8	13/16	1 5/8	1
25A107	1:2.24	500*	100*	15	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
25A108	1:2.24	1,000	200*	10	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
27A117	1:2.24	1,000	200CT	10	AG	3/4	1 3/8	1	1
27A129	1:2.24	10,000	2,000		AG	3/4	1 3/8	1	1
TR-40	1:2.24	10,000	2,000CT	1	MAH	–	7/16	1/2	7/16
TR-7	1:2.24	10,000	2,000CT	2	BCH	13/16	11/16	13/16	5/8
TR-317	1:2.24	10,000	2,000CT	2	PCT	–	11/16	3/4	9/16
TR-219	1:2.24	10,000	2,000CT	1	MAH	–	19/32	7/8	43/64
TR-201	1:2.24	10,000	2,000CT	1	MAH	–	7/16	3/4	5/16
TR-264	1:2.24	10,000	2,000CT	1	BAH	1 3/8	13/16	1 5/8	1
27A64	1:2.24	10,000	2,000CT	1	Molded	–	23/32	3/4	1
27A53	1:2.24	10,000	2,000CT	1	Molded	–	9/16	7/8	3/4
TR-229	1:2.24	10,000CT	2,000CT	0	BCH	17/32	7/16	17/32	7/16
TR-235	1:2.24	10,000CT	2,000CT	0	BAH	1	5/8	1 7/32	3/4
27A89	1:2.24	10,000CT	2,000CT	2	AF-1	1 3/6	1 5/32	13/16	13/16
27A19	1:2.24	10,000CT	2,000CT	2	TSM	1 – Stud	29/32	1/2	11/16
MI-T238	1:2.24	10,000 – 12,000CT	2,000 – 2,400*	1	RAV●	–	13/32	5/16 Dia.	

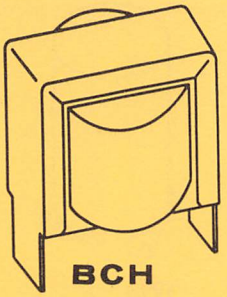
CONTINUED NEXT PAGE

* Split C.T. Winding
** Split C.T. and Balanced Winding

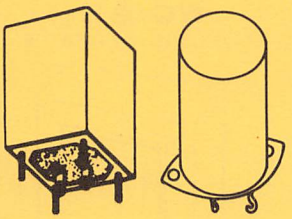
● SEE PAGE 15 AND 16 FOR COMPLETE LISTING.

✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



BCH

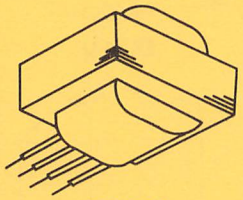


UTV **RC-25**

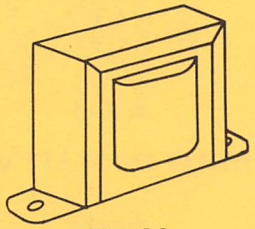
RTV

RAV

RAV SAME AS RTV WITH LEADS



MAH



BAH

TSM

SEE PAGE 34 FOR CASE SIZE AND COMPLETE TSM LISTING.

TAJ

SEE PAGE 64 FOR CASE SIZE AND COMPLETE TAJ LISTING.

PCT

SEE PAGE 10 FOR CASE SIZE AND COMPLETE PCT LISTING.

MOLDED

SEE PAGES 31, 32 & 33 FOR SIZES AND COMPLETE MOLDED LISTINGS.

LISTED IN ORDER OF THE TURNS RATIO

Interstage Transformers Continued

Part No.	Overall Turns Ratio	Impedance in Ohms Primary	Impedance in Ohms Secondary	Unbalanced Primary MADC	Mtg. ✪ Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D
27A47	1:2.24	10,000*	2,000*	8	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
25A64	1:2.24	10,000*	2,000*	8	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
25A40	1:2.24	10,000*	2,000*	4	RTV	11/16	1 3/16	7/8 Dia.	
25A109	1:2.24	10,000*	2,000*		TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
27A08	1:2.24	10,000	50,000**	5	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16
27A124	1:2.24	10,000	50,000**	5	YY	1 9/16 x 1 3/8	2.93	2.241	2.101
25A11	1:2.3	15,000	80,000CT	8	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
25A21	1:2.3	15,000*	80,000*	0	UTV	1 1/8 x 1 1/8	2	1 1/2	1 1/2
25A66	1:2.3	15,000	80,000*	8	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
27A45	1:2.3	15,000	80,000*	8	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
27A44	1:2.3	15,000*	80,000*	0	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
25A91	1:2.3	15,000/ 200/50	80,000*	–	RC	1 1/2 x 1 1/2	2 1/2	1 13/16	1 13/16
TR-9	1:2.45	5,000	30,000CT	3	BCH	13/16	11/16	13/16	5/8
TR-319	1:2.45	5,000	30,000CT	3	PCT	–	11/16	3/4	9/16
MI-T159	1:2.5	15,000	95,000CT	3	BAH	1	5/8	1 7/32	3/4
MI-T115	1:2.5	15,000	95,000CT	0	BAH	1 1/8	3/4	1 5/8	13/16
MI-T116	1:2.5	15,000	95,000CT	0	RAV	1 1/8	1 7/16	15/16 Dia.	
MI-T117	1:2.5	15,000	95,000CT	0	RSV	1 1/8	1 7/16	15/16 Dia.	
25A38	1:2.5	15,000	95,000CT	4	RTV	11/16	1 3/16	7/8 Dia.	
25A37	1:2.5	15,000	95,000CT	0	RTV	11/16	1 3/16	7/8 Dia.	
25A56	1:2.5	15,000	95,000CT	4	Plug-in	8 Pin-Octal	1 15/32	1 3/32 Dia.	
25A55	1:2.5	15,000	95,000CT	0	Plug-in	8 Pin-Octal	1 15/32	1 3/32 Dia.	
27A25	1:2.5	15,000	95,000CT	0	RC	1 1/8	1 7/16	15/16 Dia.	
27A15	1:2.5	15,000	95,000CT		AF-1	1 3/64	1 5/32	13/16	13/16
25A12	1.2.5	15,000	95,000**	0	UTV	2 19/64 x 1 55/64	3 3/16	3 1/16	2 5/8
27A26	1:2.5	15,000	95,000**	4	RC	1 1/8	1 7/16	15/16 Dia.	
25A80	1:2.5	15,000*	95,000*	0	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
TR-215	1:2.58	10,000 – 12,000CT	1,500 – 1,800CT	4	MAH	–	7/16	3/4	5/8
MI-T248	1:2.58	8,000 – 10,000CT	1,200 – 1,500CT	1	RAV●	–	13/32	5/16 Dia.	
MI-T225	1:2.58	10,000 – 12,000CT	1,500 – 1,800CT	1	RAV●	–	13/32	5/16 Dia.	
27A112	1:2.58	10,000CT	1,500CT	1	Molded	–	.465	.310	.410
27A58	1:2.58	10,000 – 12,000CT	1,500 – 1,800CT	4	Molded	–	9/16	7/8	3/4
27A77	1:2.7	15,000	110,000		YY	1 1/2	2 1/2	1 3/4	1 7/16
27A79	1:2.72	15,000	111,000		YY	1 3/16	2 1/4	1 1/4	1 1/16
27A78	1:2.72	15,000	111,000**		YY	1 1/2	2 1/2	1 3/4	1 7/16
GEO-29	1:2.75	10,000**	75,000**	5	2	1	1 11/16	1 1/16	7/8
GEO-30	1:2.75	10,000**	75,000**	0	1	1 Hole	1 3/8	15/16 Dia.	
25A110	1:2.76	15,000	115,000CT		TAJ	3/8 Hole	1 3/4	1 3/8 Dia.	
27A18	1:2.89	10,000CT	1,200CT	2	TSM	1 – Stud	29/32	1/2	11/16
TR-10	1:3	5,000CT	45,000		BCH	13/16	11/16	13/16	5/8
TR-320	1:3	5,000CT	45,000		PCT	–	11/16	3/4	9/16
20A18	1:3	7,000 – 15,000	63,000 – 135,000CT	10	BAH	2	1 3/8	2 3/8	1 1/4
20A22	1:3	7,000 – 15,000	63,000 – 135,000CT	10	BAH	2 13/16	2	3 1/4	2 1/8
20A23	1:3	7,000 – 15,000	63,000 – 135,000CT	10	FGV	2 3/8	2 3/8	2 7/8	2 1/8
25A122	1:3	7,000 – 15,000	63,000 – 135,000CT	10	TAV	2 3/8 x 1 1/2	2 11/16	2 3/4	2 1/4
20A44	1:3	10,000	90,000	10	BAH	2 13/16	2	3 1/4	1 1/2
20A45	1:3	10,000	90,000	10	BAH	2	1 3/8	2 3/8	1 1/2
20A46	1:3	10,000	90,000	10	BAH	2 3/8	1 5/8	2 7/8	1 1/2
MI-T70	1:3	10,000	90,000	.25	MAH	–	7/16	3/4	5/8
MI-T142	1:3	10,000	90,000	.25	MAH	–	19/32	7/8	43/64
MI-T71	1:3	10,000	90,000	.25	RAV-3	1 5/32	29/32	7/8 Dia.	
MI-T72	1:3	10,000	90,000	.25	RSV-2	1 5/32	29/32	7/8 Dia.	
MI-T88	1:3	10,000	90,000	.25	BAH	1 1/16	5/8	1 1/4	5/8
MI-T89	1:3	10,000	90,000	.25	RAV-3	1 5/32	1 3/32	7/8 Dia.	
MI-T90	1:3	10,000	90,000	.25	RSV-2	1 5/32	1 3/32	7/8 Dia.	
27A62	1:3	10,000	90,000	.25	Molded	–	23/32	3/4	1
27A51	1:3	10,000	90,000	.25	Molded	–	9/16	7/8	3/4
27S18	1:3	10,000	90,000	0	TSM	1 – Stud	29/32	1/2	11/16
20A93	1:3	10,000	90,000CT	10	BAH	2 3/8	1 5/8	2 7/8	1 1/2

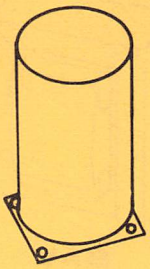
CONTINUED NEXT PAGE

* Split C.T. Winding
** Split C.T. and Balanced Winding

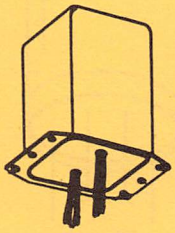
● SEE PAGE 15 AND 16 FOR COMPLETE LISTING.

✪ 27 SERIES GEO SERIES

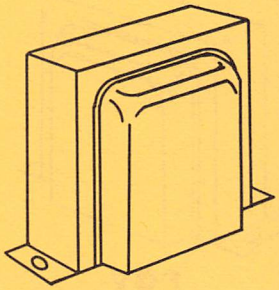
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



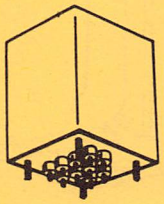
RC



TAV



FGV



MIL-T-27A

TSM

SEE PAGE 34 FOR CASE SIZE AND COMPLETE TSM LISTING.

TAJ

SEE PAGE 64 FOR CASE SIZE AND COMPLETE TAJ LISTING.

RSV
RSV-2
RAV-3

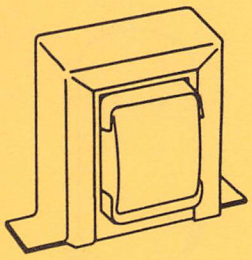
SEE PAGE 23 & 24 FOR CASE SIZES.

Interstage

LISTED IN ORDER OF THE TURNS RATIO

Interstage Transformers Continued

Part No.	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	Unbalanced Primary MADC	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
27A140	1:3	10,000	90,000CT		AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
20A96	1:3	10,000CT	90,000**	10	BAH	2 13/16	2	3 1/4	1 3/4
20A97	1:3	10,000**	90,000**	10	BAH	3 1/8	2 1/4	3 3/4	2 5/8
GEO-24	1:3	10,000**	90,000**	5	4	1 x 13/16	2 3/4	1 1/2	1 5/16
GEO-25	1:3	10,000**	90,000**	5	6	1 1/4 x 1 1/4	2 3/4	2	2
GEO-32	1:3	10,000**	90,000**	5	2	1	1 11/16	1 1/16	7/8
GEO-86	1:3	10,000**	90,000CT	–	4	1 x 13/16	2 3/4	1 1/2	1 5/16
20A19	1:3	10,000 – 20,000CT	90,000 – 180,000CT	10	BAH	2 3/8	1 5/8	2 7/8	1 5/8
MI-T150	1:3	15,000	135,000	1	MAH	–	7/16	1/2	7/16
25A86	1:3	15,000	135,000*	1	RC	1 1/2 x 1 1/2	2 1/2	1 3/16	1 3/16
25A85	1:3	15,000	135,000	0	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
25A82	1:3	15,000*	135,000*	0	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8
25A13	1:3	15,000**	135,000**	0	UTV	2 19/64 x 1 55/64	3 3/16	3 1/16	2 5/8
27A97	1:3	15,000	135,000CT	1	TJZ	–	25/32	9/16 Dia.	
20A24	1:3	20,000CT	180,000CT	10	FGV	2 3/8	2 3/8	2 7/8	2 1/8
25A94	1:3	30,000CT	3,300*	–	RC	2 3/32 x 2 3/32	3 1/4	2 9/16	2 9/16
TR-12	1:3.16	100CT	10CT	10	BCH	13/16	11/16	13/16	5/8
TR-322	1:3.16	100CT	10CT	10	PCT	–	11/16	3/4	9/16
TR-296	1:3.16	100CT	10CT	100	BAH	1 3/4	1 3/16	2 1/8	1 1/16
TR-349	1:3.16	100	10CT	100	BAH	1 3/8	3/4	1 5/8	13/16
27A114	1:3.16	100CT	10CT	100	AH	1 1/4	1 3/4	1 5/16	1 5/16
TR-257	1:3.16	100	1,000CT	100	BAH	2	1 3/8	2 3/8	1 1/2
27A115	1:3.16	100	1,000CT	100	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
TR-246	1:3.16	200CT	2,000CT	2	BAH	1 3/8	13/16	1 5/8	1
TR-224	1:3.16	400 – 500CT	40 – 50*	8	MAH	–	19/32	7/8	43/64
TR-41	1:3.16	500	50	2	MAH		7/16	1/2	7/16
TR-11	1:3.16	500CT	50	3	BCH	13/16	11/16	13/16	5/8
TR-321	1:3.16	500CT	50	3	PCT	–	11/16	3/4	9/16
MI-T243	1:3.16	400 – 500CT	40 – 50*	8	RAV ●	–	13/32	5/16 Dia.	
27A67	1:3.16	400 – 500CT	40 – 50CT	8	Molded	–	23/32	3/4	1
MI-T202	1:3.16	500 – 600	50 – 60	3	RAV ●	–	13/32	5/16 Dia.	
25A48	1:3.16	500*	50*	20	RTV	11/16	1 3/16	7/8 Dia.	
25A70	1:3.16	500*	50*	20	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
TR-259	1:3.16	500CT	5,000CT	12	BAH	2	1 3/8	2 3/8	1 3/8
27A116	1:3.16	500CT	5,000CT	12	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
27A118	1:3.16	2,000	200CT	5	AG	3/4	1 3/8	1	1
TR-266	1:3.16	5,000CT	50,000CT	1	BAH	1 3/8	13/16	1 5/8	1
GEO-22	1:3.16	10,000**	100,000**	5	3	1 1/4	2 1/4	1 13/32	1 1/16
GEO-23	1:3.16	10,000**	100,000**	5	5	1 x 1	2 1/2	1 1/2	1 1/2
20A92	1:3.5	10,000	122,500CT	10	BAH	2 3/8	1 5/8	2 7/8	1 1/2
TR-130	1:3.58	10,000CT	1,500CT		Molded	–	.312	.426	.400
MI-T245	1:4	1,000 – 1,250CT	16,000 – 20,000*	3.5	RAV ●	–	13/32	5/16 Dia.	
TR-13	1:4	5,000CT	80,000	2	BCH	13/16	11/16	13/16	5/8
TR-323	1:4	5,000CT	80,000	2	PCT	–	11/16	3/4	9/16
TR-108	1:4	5,000CT	80,000CT	0	BCH	13/16	11/16	13/16	5/8
TR-308	1:4	5,000CT	80,000CT	0	PCT	–	11/16	3/4	9/16
20A48	1:4	7,000 – 15,000	112,000 – 240,000CT	10	BAV	2	2	2 3/8	1 3/4
20A90	1:4	10,000	160,000CT	10	GGV	2 x 1 11/16	3 1/8	2 5/8	2 3/8
20A91	1:4	10,000	160,000CT	10	BAH	2 13/16	2	3 1/4	1 3/4
TR-14	1:4.08	20,000	1,200	2	BCH	13/16	11/16	13/16	5/8
TR-324	1:4.08	20,000	1,200	2	PCT	–	11/16	3/4	9/16
TR-44	1:4	20,000	1,200	2	MAH	–	7/16	1/2	7/16
TR-106	1:4	20,000CT	1,200	2	BCH	13/16	11/16	13/16	5/8
TR-227	1:4	20,000	1200/600/100	.5	MAH	–	7/16	1/2	7/16
27A98	1:4	20,000	1200/600/100	.5	TJZ	–	25/32	9/16 Dia.	
TR-45	1:4.46	1,000	50	–	MAH	–	7/16	1/2	7/16
25A43	1:4.47	10,000CT	500*	4	RTV	11/16	1 3/16	7/8 Dia.	
27A39	1:4.47	10,000CT	500*	4	RC-25	1 1/8	1 7/16	15/16 Dia.	
25A68	1:4.47	10,000*	500*	8	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
MI-T1	1:4.47	20,000	1,000	.5	MAH	–	3/8	3/8	11/32
MI-T2	1:4.47	20,000	1,000	.5	RAV-1	–	7/16	7/16 Dia.	
MI-T3	1:4.47	20,000	1,000	.5	RSV-1	1 - Stud	9/16	7/16 Dia.	
MI-T4	1:4.47	20,000	1,000	.5	MAH	–	3/8	3/8	11/32



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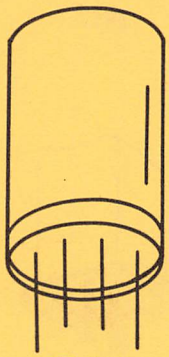
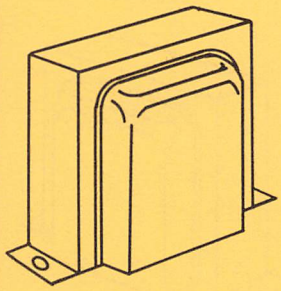


TJZ



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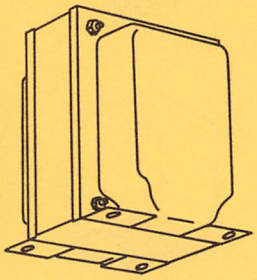

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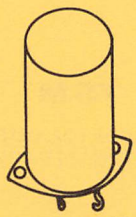


RC-25

PCT

SEE PAGE 10 FOR COMPLETE PCT LISTING

** Split C.T. and Balanced Winding
* Split C.T. Winding

CONTINUED NEXT PAGE

● SEE PAGE 15 AND 16 FOR COMPLETE LISTING.

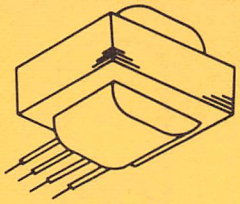
✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

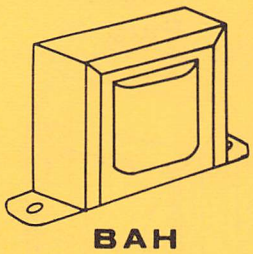
LISTED IN ORDER OF THE TURNS RATIO

Interstage Transformers Continued

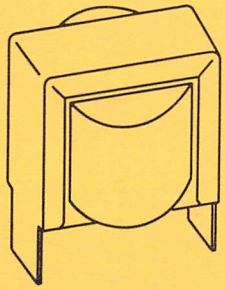
Part No.	Overall Turns Ratio	Impedance in Ohms Primary	Impedance in Ohms Secondary	Unbalanced Primary MADC	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
MI-T5	1:4.47	20,000	1,000	.5	RAV-1		7/16	7/16 Dia.	
MI-T6	1:4.47	20,000	1,000	.5	RSV-1	1 – Stud	9/16	7/16 Dia.	
MI-T21	1:4.47	20,000	1,000	.5	MAH		3/8	3/8	3/8
MI-T22	1:4.47	20,000	1,000	.5	RAV-2	1 – Stud	5/8	17/32 Dia.	
MI-T23	1:4.47	20,000	1,000	.5	RSV-1	1 – Stud	11/16	17/32 Dia.	
TR-120	1:4.47	20,000	1,000	–	MAH	–	19/64	19/64	13/64
TR-132	1:4.47	20,000	1,000	–	Molded	–	.312	.426	.400
MI-T239	1:4.47	20,000 – 30,000CT	1,000 – 1,500*	.5	RAV●	–	13/32	5/16 Dia.	
MI-T53	1:4.55	1,200	25,000CT	.5	MAH	–	7/16	1/2	7/16
MI-T54	1:4.55	1,200	25,000CT	.5	RAV-2	1 – Stud	23/32	21/32 Dia.	
MI-T55	1:4.55	1,200	25,000CT	.5	RSV-1	1 – Stud	23/32	21/32 Dia.	
TR-253	1:5	5,000	200CT	1	BAH	1 1/16	5/8	1 9/32	11/16
25A41	1:5	10,000*	4,000*	4	RTV	11/16	1 3/16	7/8 Dia	
TR-134	1:5	20,000	800	–	Molded	–	.312	.426	.400
TR-17	1:5	20,000	800CT	1	BCH	13/16	11/16	13/16	5/8
TR-327	1:5	20,000	800CT	1	PCT	–	11/16	3/4	9/16
TR-256	1:5	20,000	800CT	.5	BAH	1 1/16	5/8	1 9/32	11/16
TR-200	1:5	20,000 – 30,000	800 – 1,200	.5	MAH	–	7/16	3/4	5/8
TR-218	1:5	20,000 – 30,000	800 – 1,200	.5	MAH	–	19/32	7/8	43/64
27A63	1:5	20,000 – 30,000	800 – 1,200	.5	Molded	–	23/32	3/4	1
27A52	1:5	20,000 – 30,000	800 – 1,200	.5	Molded	–	9/16	7/8	3/4
MI-T201	1:5	20,000 – 30,000	800 – 1,200	.5	RAV●	–	13/32	5/16 Dia.	
TR-135	1:5	20,000CT	800CT	–	Molded	–	.312	.426	.400
TR-208	1:5	20,000 – 30,000CT	800 – 1,200CT	1	MAH	–	7/16	3/4	5/8
27A56	1:5	20,000 – 30,000CT	800 – 1,200CT	1	Molded	–	9/16	7/8	3/4
MI-T223	1:5	20,000 – 30,000CT	800 – 1,200CT	.5	RAV●	–	13/32	5/16 Dia.	
MI-T253	1:5	20,000 – 30,000CT	800 – 1,200CT	.5	RAV●	–	1/4	5/16 Dia.	
27A35	1:5	20,000*	800*	1	TFH	4-40 Studs	9/16	23/32	27/32
27A110	1:5	25,000	1,000	.5	Molded	–	.465	.310	.410
27A17	1:5	25,000	1,000	.5	TSM	1 – Stud	29/32	1/2	11/16
27A111	1:5	25,000CT	1,000CT	.5	Molded	–	.465	.310	.410
TR-48	1:5.75	20,000	600	1	MAH	–	7/16	1/2	7/16
25A95	1:6.25	5,000CT	800*	–	RC	2 3/8 x 2 3/8	3 3/4	3	3
GEO-26	1:7	10,000**	483,000**	5	4	1 x 13/16	2 3/4	1 1/2	1 5/16
GEO-84	1:7	10,000**	483,000**	5	6	1 1/4 x 1 1/4	2 3/4	2	2
TR-23	1:7.07	10,000	200CT	1	BCH	13/16	11/16	13/16	5/8
TR-333	1:7.07	10,000	200CT	1	PCT	–	11/16	3/4	9/16
TR-207	1:7.07	10,000 – 25,000CT	200 – 500CT	2 1	MAH	–	7/16	3/4	5/8
27A55	1:7.07	10,000 – 25,000CT	200 – 500CT	2 1	Molded	–	9/16	7/8	3/4
27A28	1:7.07	10,000 – 25,000*	200 – 500*	2	TFH	4-40 Studs	9/16	23/32	27/32
TR-228	1:7.07	25,000CT	500CT		BCH	17/32	7/16	17/32	7/16
25A67	1:7.07	25,000*	500*	3	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
TR-295	1:7.75	600CT	10	20	BAH	1 3/8	13/16	1 5/8	15/16
27A113	1:7.75	600CT	10	20	AG	3/4	1 3/8	1	1
TR-24	1:8.17	100,000	1,500	.5	BAH	1 3/8	3/4	1 5/8	13/16
TR-334	1:8.17	100,000	1,500	.5	PCT-3	–	13/16	1	7/8
MI-T161	1:8.2	15,000	1 Meg.	–	BAH	1	5/8	1 7/32	3/4
27A88	1:8.2	15,000	1 Meg.	–	AF-1	1 3/64	1 5/32	13/16	13/16
TR-25	1:8.66	15,000	200CT	2	BCH	13/16	11/16	13/16	5/8
TR-335	1:8.66	15,000	200CT	2	PCT	–	11/16	3/4	9/16
TR-262	1:8.66	15,000	200CT	1.5	BAH	1 3/8	13/16	1 5/8	1
TR-236	1:9.1	50,000CT	600*	.5	BAH	1	5/8	1 7/32	3/4
MI-T50	1:9:1	100,000	1,200CT	0	MAH	–	7/16	1/2	7/16
MI-T51	1:9:1	100,000	1,200CT	0	RAV-2	1 – Stud	23/32	21/32 Dia.	



MAH

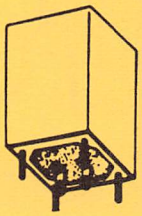


BAH

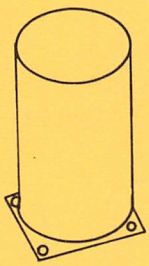


BCH

RTV



UTV



RC

PCT

SEE PAGE 10 FOR SIZES AND COMPLETE P C T LISTINGS.

TSM TFH

SEE PAGE 34 FOR CASE SIZES AND COMPLETE TSM & TFH LISTINGS.

RAV

SEE PAGE 15 & 16 FOR COMPLETE LISTINGS.

RAV-1,-2,-3

SEE PAGE 22 & 23 FOR SIZES AND COMPLETE LISTINGS.

* Split C.T. Winding

** Split C.T. and Balanced Winding

CONTINUED NEXT PAGE

● SEE PAGE 15 AND 16 FOR COMPLETE LISTING.

✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Interstage

LISTED IN ORDER OF THE TURNS RATIO

Interstage Transformers Continued

Part No.	Overall Turns Ratio	Impedance In Ohms Primary	Impedance In Ohms Secondary	Unbalanced Primary MADC	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
MI-T52	1:9:1	100,000	1,200CT	0	RSV-1	1 – Stud	23/32	21/32 Dia.	
20A98	1:10	10,000	1 Meg.	1	BAH	1 3/8	3/4	1 5/8	13/16
25A39	1:10	10,000	1 Meg.	–	RTV	11/16	1 3/16	7/8 Dia.	
25A57	1:10	10,000	1 Meg.	–	Plug-in	8 Pin-Octal	1 15/32	1 3/32 Dia.	
27A30	1:10	10,000	1 Meg.	0	RC-25	1 1/8	1 7/16	15/16 Dia.	
MI-T136	1:10	10,000	1 Meg.	0	BAH	1 1/8	3/4	1 5/8	13/16
MI-T137	1:10	10,000	1 Meg.	0	RAV	1 1/8	1 7/16	15/16 Dia.	
MI-T138	1:10	10,000	1 Meg.	0	RSV	1 1/8	1 7/16	15/16 Dia.	
TR-217	1:10	40,000 – 50,000CT	400 – 500*	.5	MAH	–	7/16	3/4	5/8
27A60	1:10	40,000 – 50,000CT	400 – 500*	.5	Molded	–	9/16	7/8	3/4
MI-T240	1:10	40,000 – 50,000CT	400 – 500*	.25	RAV •	–	13/32	5/16 Dia.	
TR-26	1:10	50,000	500CT	1	BCH	13/16	11/16	13/16	5/8
TR-336	1:10	50,000	500CT	1	PCT	–	11/16	3/4	9/16
27A40	1:10	50,000CT	500*	2	RC-25	1 1/8	1 7/16	15/16 Dia.	
25A44	1:10	50,000CT	500*	2	RTV	11/16	1 3/16	7/8 Dia.	
TR-54	1:14.14	200,000	1,000	0	MAH	–	7/16	1/2	7/16
20A28	Exact for Delco 6061				BCV	1 1/16 x 9/16	1 5/8	1 7/16	1 1/4

* Split C.T. Winding

• SEE PAGE 15 AND 16 FOR COMPLETE LISTING.

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Optimum Turns Ratios for Interstage Transformer Applications

The gain per stage is not solely dependent upon the turns ratio of interstage transformers, but is a direct function of the ratio of plate load to plate resistance.

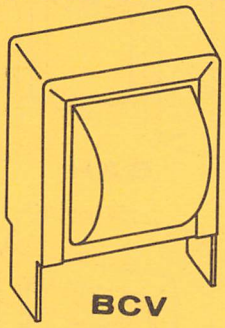
$$E_p = \frac{R_1}{R_1 + R_p} U\ e_g$$

In any one core, only a certain maximum number of turns for the primary and secondary are available. Therefore, an increase in primary turns resulting in an increase in primary impedance must, because of the limited turns, be accompanied by fewer secondary turns and a lower step-up ratio.

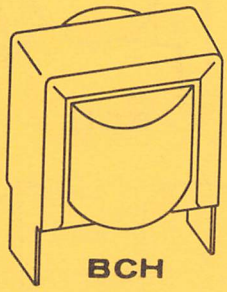
Because of the impedance reflecting action of a transformer the standard formula (above) is under practical conditions, altered so that maximum gain is obtained when the primary impedance (tube load) is equal to the plate resistance. Therefore, the nearest approach to maximum gain in small transformers may be a low turns ratio so as to provide a practical load.

Plug In

SEE PAGE 60 FOR COMPLETE LISTING



BCV



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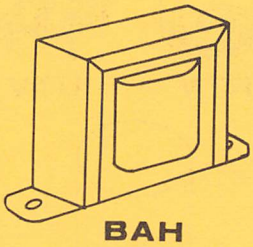

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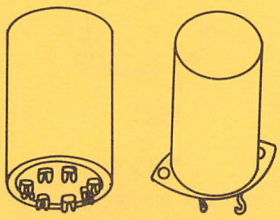
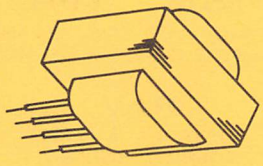


RTV **RC-25**



MAH

RSV RSV-1 RAV

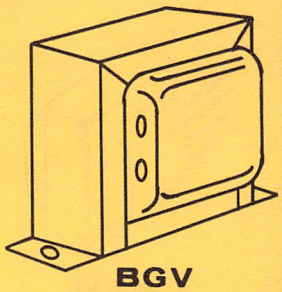
SEE PAGE 24 & 25 FOR CASE SIZES

PCT

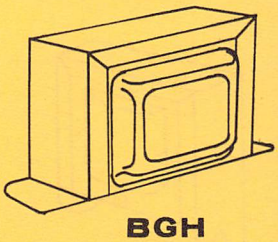
SEE PAGE 10 FOR COMPLETE PCT LISTING

MOLDED

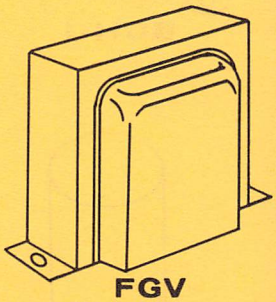
SEE PAGE 31, 32 & 33 FOR SIZES AND COMPLETE MOLDED LISTINGS.



BGV



BGH



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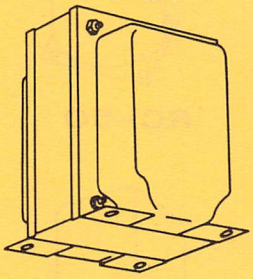
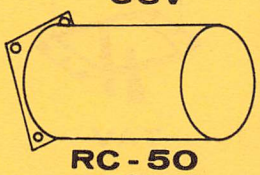
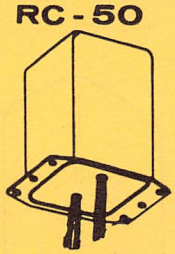


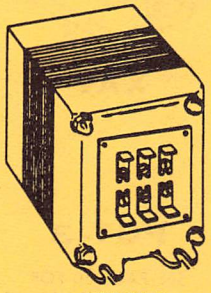
GGV



RC-50



TTV (Lugs) TAV (Leads)



PUV

Single Plate to Push Pull Grids

Part No.	Primary Ratio to 1/2 Sec.	Primary MADC	Mtg Type	Mtg Centers	Dimensions H.	Dimensions W.	Dimensions D.	Wt. Lbs.
20D23	2:1	15	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20D27	2.2:1	30	BGV	2 3/8	2 1/2	2 7/8	1 7/8	1
20D75	2.4:1	10	BAH	2	1 3/8	2 3/8	1 1/4	.5
20D21	2.5:1	15	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20D86	2.5:1	30	BAH	2 7/8	2	3 1/8	2	1.25
20D77	2.5:1	30	FGV	2 3/8	2 3/8	2 7/8	2 1/8	1.5
20D24	2.5:1	40	GGV	2 x 1 7/8	3 1/8	2 5/8	2 3/4	2.5
20D26	3:1	20	BGH	2 13/16	2	3 1/4	1 7/8	1
20D25	4:1	15	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20D76	5.2:1	15	BAH	2	1 3/8	2 3/8	1 1/4	.5

Single or Push-Pull Plates to Push Pull Grids

Part No.	Primary Ratio to 1/2 Sec.	Primary MADC	Mtg Type	Mtg Centers	Dimensions H.	Dimensions W.	Dimensions D.	Wt. Lbs.
20D29	2:1	50	GGV	2 x 2 1/4	3 5/8	3	3 1/4	3.75
20D88	2.65:1	15	BAH	1 3/4	1 3/16	2 1/16	1 1/4	.21
20D28	2.8:1	18	BAH	3 9/16	3 1/8	4	2 5/8	2.5
25D59	2.8:1 or 3.1:1	60	RC-87	2 3/32 x 2 3/32	3 1/4	2 9/16	2 9/16	2.5
20D85	3:1	10	BAH	2 3/8	1 5/8	2 7/8	1 5/8	.75
27D32	3:1	10	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.25
27D30	3:1	10	YY	1 13/16 x 1 11/16	3.049	2.521	2.381	2.25
25D49	3:1	10	TAV	2 11/16 x 1 3/4	3 1/8	3	2 1/2	2.25
25D55	3:1	10	TTV	2 11/16 x 1 3/4	3 1/8	3	2 1/2	2.25
27D33	3:1	25	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.25
27D31	3:1	25	YY	1 13/16 x 1 11/16	3.299	2.521	2.381	2.5
25D50	3:1	25	TAV	2 11/16 x 1 3/4	3 1/8	3	2 1/2	2.25
25D56	3:1	25	TTV	2 11/16 x 1 3/4	3 1/8	3	2 1/2	2.25
20D89	3:1	40	BAH	2 3/8	1 5/8	2 13/16	1 1/2	.6
27D35	3:1	100	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	3.5
25D52	3:1	100	TAV	3 1/8 x 2	3 1/2	2 7/8	3 1/2	3.5
25D58	3:1	100	TTV	3 1/8 x 2	3 1/2	2 7/8	3 1/2	3.5
25D54*	3:1	200	TTV	5 3/8 x 3 1/2	6 1/16	5 1/16	5 7/8	12.25
20D80	3.2:1 or 2:1	100	GGV	1 3/4 x 2	3 1/8	2 5/8	2 3/4	2.5
20D82*	3.2:1, 4:1 or 5:1	100	GGV	1 3/4 x 2	3 1/8	2 5/8	2 3/4	2.5
25D53•	3.5:1	200	UTV-7	2 3/8 x 2 5/8	5 1/4	3 3/8	3 15/16	6.5
27D34•	3.7:1 or 5:1	100	JA	2 1/8 x 2 5/8	4 7/8	3 1/16	3 9/16	4.5
25D51•	3.7:1 or 5:1	100	TAV	3 1/2 x 2 1/4	3 7/8	4	3 1/4	4.5
25D57•	3.7:1 or 5:1	100	TTV	3 1/2 x 2 1/4	3 7/8	4	3 1/4	4.5
20D78	4:1	40	GGV	2 x 1 3/4	3 1/8	2 5/8	2 3/4	2.5
20D30	5:1	45	GGV	2 x 1 15/16	3 1/8	2 5/8	2 5/8	2.75
20D81*	5:1	100	GGV	2 1/4 x 2 1/2	3 7/8	3 1/4	3 1/2	4.5
20D87**	5.2:1	30	BAH	2 7/8	2	3 1/8	2	1.25
20D79**	5.2:1	30	FGV	2 3/8	2 3/8	2 7/8	1 7/8	1.5

Push Pull Grids Line to -Primary 500 CT Ohm Line

Part No.	Primary Ratio to 1/2 Secondary	Watts	Mtg Type	Mtg Centers	Dimensions H.	Dimensions W.	Dimensions D.	Wt. Lbs.
20D84*	1:0.75, 1:0.85, 1:1.25, 1:1.4, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3.15	20	GTV	2 x 2 1/4	3 1/2	2 7/8	3 1/4	3.5
20D83	1:0.75, 1:0.85, 1:1.25, 1:1.4, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3.15	20	PUV	4 3/8 x 1 3/8	4	3 1/8	4 3/4	8
20D32	1:0.75, 1:0.85, 1:1.25, 1:1.4, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3.15	15	GTV	2 x 1 15/16	3 1/8	2 5/8	3 5/8	3.25

** May be used in double sideband modulators.
* Has split windings for balancing and/or inverse feedback applications.
• Split secondary winding

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

SEE NEXT PAGE FOR TRANSISTOR DRIVER TRANSFORMERS

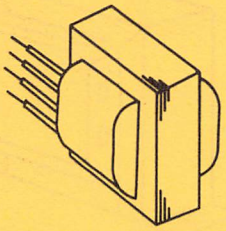
Driver

Transistor Driver Transformers

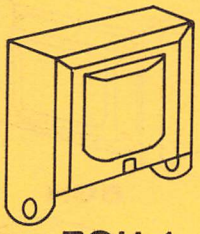
Part No.	Turns Ratio	Impedance in Ohms Wdg. #1	Impedance in Ohms Wdg. #2	Resistance in Ohms Wdg. #1	Resistance in Ohms Wdg. #2	Power Mill-Watts	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
TR-195 *	1:1	100	100CT	9.1	10	4 W.	BAH	2 3/8	1 5/8	2 13/16	1 1/2
TR-64	1:1	100	100CT	6.5	8.5	500	BAH	1 3/4	1 3/16	2 1/8	1
TR-1	1:1	500CT	500CT	40	55	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-311	1:1	500CT	500CT	40	55	300	PCT-3	–	13/16	1	7/8
TR-37	1:1	500CT	500CT	34	42	50	MAH	–	7/16	1/2	7/16
TR-38	1.09:1	6,000	5,000CT	330	250	50	MAH	–	7/16	1/2	7/16
TR-121	1.1:1	500CT*	600	58	105	20	Molded	–	.312	.426	.400
TR-2	1.23:1	5,000CT	7,500CT	550	980	150	BCH	13/16	11/16	13/16	5/8
TR-312	1.23:1	5,000CT	7,500CT	550	980	150	PCT	–	11/16	3/4	9/16
TR-39	1.24:1	4,000	2,600CT	330	220	50	MAH	–	7/16	1/2	7/16
TR-123	1.25:1	900CT*	600	105	110	20	Molded		.312	.426	.400
TR-68	1.29:1	5,000	3,000CT			20	XAV	1 1/4	1 3/4	1 1/4	1 1/4
TR-65	1.41:1	100	200CT	6.5	16.3	500	BAH	1 3/4	1 3/16	2 1/8	1
TR-194	1.41:1	200CT	400CT	26.5	58.6	6 W.	BAH	2 13/16	1 15/16	3 5/16	1 3/4
TR-301	1.41:1	200CT	400CT	–	–	600	TAV	2 3/8 x 1 1/2	3	2 11/16	2 5/16
27D36	1.41:1	200CT	400**	–	–	1 W.	RC-50	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
TR-3	1.41:1	5,000CT	10,000CT	550	1,100	150	BCH	13/16	11/16	13/16	5/8
TR-313	1.41:1	5,000CT	10,000CT	550	1,100	150	PCT	–	11/16	3/4	9/16
TR-66	1.58:1	500CT	200CT	37	16.3	500	BAH	1 3/4	1 3/16	2 1/8	1
TR-124	1.58:1	1,500CT*	600	210	120	20	Molded	–	.312	.426	.400
TR-4	1.73:1	1,500	500CT	100	45	150	BCH	13/16	11/16	13/16	5/8
TR-314	1.73:1	1,500	500CT	100	45	150	PCT	–	11/16	3/4	9/16
TR-5	1.81:1	490CT	150CT	30	15	150	BCH	13/16	11/16	13/16	5/8
TR-315	1.81:1	490CT	150CT	30	15	150	PCT	–	11/16	3/4	9/16
TR-6	1.83:1	10,000	3,000CT	820	660	150	BCH	13/16	11/16	13/16	5/8
TR-316	1.83:1	10,000	3,000CT	820	660	150	PCT	–	11/16	3/4	9/16
TR-303	2:1	30	120**	1.8	3.6	4 W.	BAV	2	2	2 3/8	1 1/2
TR-350	2:1	8,000	2,000CT	355	205	500	BCH	1 3/8	1 3/16	1 7/16	1
TR-238	2.24:1	1,000	200CT	428	128	1	BAH	1 1/16	5/8	1 9/32	11/16
TR-125	2.24:1	10,000	2,000CT*	1,160	160	20	MAH	–	.312	.426	.400
TR-40	2.24:1	10,000	2,000CT	295	147	50	MAH	–	7/16	1/2	7/16
27D38	2.24:1	10,000CT	2,000CT	1,050	330	50	Molded	–	.465	.310	.410
TR-7	2.24:1	10,000	2,000CT	740	300	150	BCH	13/16	11/16	13/16	5/8
TR-317	2.24:1	10,000	2,000CT	740	300	150	PCT	–	11/16	3/4	9/16
TR-175	2.24:1	10,000	2,000CT*	1,600	310	300	BCH	1 1/16	13/16	1 1/8	7/8
MI-T211	2.24:1	10,000–12,500	2,000–2,500CT	780	–	100	RAV	–	13/32	5/16 Dia.	
TR-176	2.83:1	2,000	250	880	9	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-127	2.89:1	10,000	1,200CT*	1,160	105	20	Molded	–	.312	.426	.400
27D37	2.89:1	10,000CT	1,200CT	1,050	200	50	Molded	–	.465	.310	.410
MI-T210	2.89:1	10,000–12,500	1,200–1,500CT	780	-	100	RAV	–	13/32	5/16 Dia.	
TR-11	3.16:1	500CT	50	30	5	150	BCH	13/16	11/16	13/16	5/8
TR-321	3.16:1	500CT	50	30	5	150	PCT	–	11/16	3/4	9/16
TR-41	3.16:1	. 500	50	35	4.6	50	MAH	–	7/16	1/2	7/16
TR-204	3.16:1	500-600	50-60	50	5	100	MAH	–	7/16	3/4	5/8
TR-177	3.16:1	1,000	100	210	20	2W	BCH	1 11/16	1 3/8	1 3/4	1 1/4
TR-260	3.16:1	2,000CT	200CT	748	120	100	BAH	1 1/16	5/8	1 9/32	11/16
TR-261	3.16:1	20,000CT	2,000CT	2,140	327	200	BAH	1 3/8	13/16	1 5/8	1
TR-243	4.08:1	50,000	3,000	3,720	250	200	BAH	1 3/8	13/16	1 5/8	1
TR-45	4.47:1	1,000	50	73	4.6	50	MAH	–	7/16	1/2	7/16
TR-234	4.47:1	1,000	50	355	20	1	MAH	–	7/16	1/2	7/16
TR-133	4.47:1	10,000CT*	500CT*	1,160	44	20	Molded	–	.312	.426	.400
27D39	4.47:1	10,000CT	500CT	1,050	80	50	Molded	–	.465	.310	.410
TR-210	4.47:1	10,000–12,500CT	500–600CT	800	95	100	MAH	–	7/16	3/4	5/8
MI-T251	4.47:1	10,000–12,000	500–600CT	870	100	100	RAV	–	1/4	5/16 Dia.	
MI-T209	4.47:1	10,000–12,000	500–600CT	780	–	100	RAV	–	13/32	5/16 Dia.	
TR-178	4.6:1	950	45CT	120	5.2	2W	BAV	1 3/4	1 3/16	2 1/8	1 1/8
TR-351	4.65:1	6,000	280CT	747	6.7	20	BAH	1 3/8	3/4	1 5/8	13/16
TR-179	5:1	1,000	40	130	2.8	2W	BCV-1	1 3/32 x 17/32	1 11/16	1 1/2	1 1/4
TR-245	5.78:1	100,000	3,000CT	9,880	318	200	BAH	1 3/8	13/16	1 5/8	1
TR-182	6:1	720	20	180	3	1W	BCH-1	1 5/8 x 11/16	1 3/16	2	1
TR-180	6.4:1	660	16	49	2.2	1W	BAH	1 3/4	1 1/4	2	1 1/8

* Balanced Windings
** Split C.T. Winding

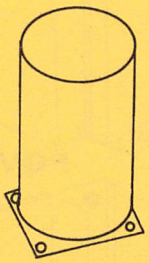
CONTINUED NEXT PAGE



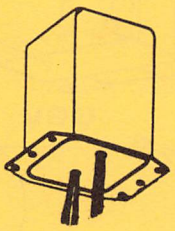
MAH



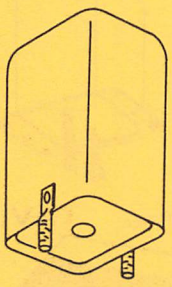
BCH-1



RC-50



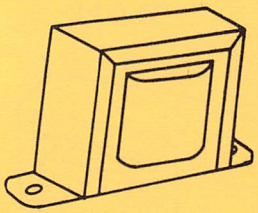
TAV



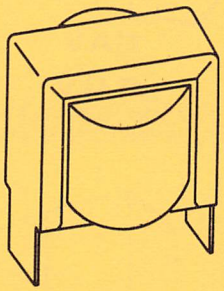
XAV

PCT-3

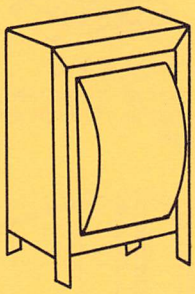
SEE PAGE 10 FOR COMPLETE PCT LISTING



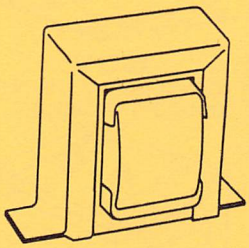
BAH



BCH



BCV-1



BAV

PCT

SEE PAGE 10 FOR COMPLETE PCT LISTING

Transistor Driver Transformers Continued

Part No.	Turns Ratio	Impedance in Ohms Wdg. #1	Impedance in Ohms Wdg. #2	Resistance in Ohms Wdg. #1	Resistance in Ohms Wdg. #2	Power Mill-Watts	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
TR-181	7.07:1	1,500	30	200	5.5	300	BAH	1 3/8	3/4	1 5/8	3/4
TR-23	7.07:1	10,000	200CT	900	11	150	BCH	13/16	11/16	13/16	5/8
TR-333	7.07:1	10,000	200CT	900	11	150	PCT	–	11/16	3/4	9/16
TR-183	7.5:1	2,250	40	420	3.7	2 W.	BAV	1 3/4	1 5/8	2 1/8	1 1/8
TR-184	8:1	960	15	350	5	2 W.	BCH	1 11/16	1 3/8	1 3/4	1 1/4
TR-186	10:1	1,000	10	160	1	2 W.	BCV-1	1 3/32 x 17/32	1 11/16	1 1/2	1 3/8
TR-185	10:1	2,000	20	220	5	1 W.	BAH	1 3/4	1 3/16	2 1/8	15/16
TR-26	10:1	50,000	500CT	1,300	30	150	BCH	13/16	11/16	13/16	5/8
TR-336	10:1	50,000	500CT	1,300	30	150	PCT	–	11/16	3/4	9/16
TR-242	10:1	50,000	500CT	6,090	47.5	100	BAH	1 1/16	5/8	1 9/32	11/16
TR-187	15:1	4,500	20	150	1.6	2 W.	BAH	2	1 3/8	2 3/8	1 1/8
TR-188	18.4:1	3,400	10	270	1.6	1 W.	BAH	1 3/4	1 1/4	2 1/8	1
TR-189	20:1	8,000	20	210	3.3	2 W.	BAH	2	1 3/8	2 3/8	1 3/8
TR-190	22:1	5,000	50	900	8	300	BAH	1 3/8	3/4	1 5/8	13/16
TR-244	22.4:1	10,000	200CT	9,900	19.5	200	BAH	1 3/8	3/4	1 5/8	1

Multi-purpose Driver Transformer

Part No.	Primary Ratio To 1/2 Secondary	Primary MADC	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
20D31	1:1CT/1.5:1/2:1	35	BAH	2 13/16	2	3 1/4	1 3/4	1

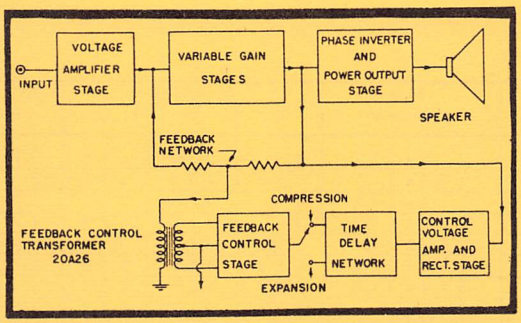
Multi-purpose Transistor Driver Transformer

Designed especially for transistor circuits where the optimum turns ratio is unknown. Turns ratios from 1:1 to 10:1 provides a full range to determine the correct ratio required to match one transistor stage to another. Ideally suited for Transistor Radio servicing – where information is sometimes limited – or for lab or experimental application.

Part No.	Primary to Secondary Turns Ratio	Primary MADC	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
TR-309	1:1CT/2:1CT/3:1CT/4:1CT/5:1CT 6:1/7:1/8:1/9:1/10:1	10	BAV	1 1/2	1 3/8	1 7/8	1

Expander-Compressor Transformer

Part No.	Application	Turns Ratio P/S	Primary MADC	Mtg Centers	Dimensions H	Dimensions D/A
20A26	Feed Back Transformer	3:1	15	1 5/16 x 1 5/16	2	1 9/16



Special inverse feedback Control Transformer 20A26 is employed as a control element in a variable audio inverse feedback system that is basis of the expander compresser circuit.

In this circuit the variable gain action is produced by automatic controlling inverse feedback voltage.

The speed of response is faster and the harmonic distortion does not rise with control action as it does with the grid bias control systems. Complete instructions are supplied with each unit.

Modulation

Plate Modulation

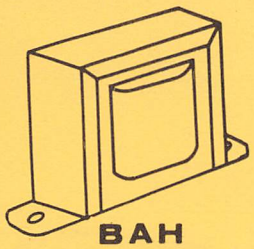
Part No.	Impedance In Ohms	MADC Pri.	MADC Sec.	Typical Output Tubes	Class	Max. Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
21M50	Pri. 10,000CT Sec. 4,750	30	30	6K6, 6V6	A	3	BAH	2	1 3/8	2 3/8	1 1/4	.5
21M59	Pri. 10,000CT Sec. 4,000	32	50	Sgl. 6K6, 6E6, 6G6 P.P. 30, 49, 1H4	A B	5	BAH	2 3/8	1 5/8	2 7/8	1 5/8	.75
21M73	Pri. 10,000CT Sec. 5K/8K/10K	5 Unb.	50	6K6, 1G6, 6E6	A	5	BAH	1 3/4	1 3/16	2 1/16	1 1/4	.45
21M55	Pri. 5,000* Sec. 6,750 and 4	40	100	6AQ5, 6AU8	A	10	BAV	2	2	2 3/8	1 1/2	.75
21M52	Pri. 10,000CT Sec. 3K/3.75K/4.5K	80	80	Sgl. 6L6, 6F6, 6N7 P.P. 6V6, 6K6, 6BK5	A	10	FGV	2 3/8	2 3/8	2 7/8	2 1/8	1.5
21M63	Pri. 4,500 Sec. 8,500	60	50	Sgl. 6L6, HY69 Sgl. #6B5, 6F6, 6N6	A	10	BAH	2 13/16	2	3 1/4	2	1.25
21M53	Pri. 10,000CT Sec. 3K/3.75K/4.5K	80	80	Sgl. 6L6, 6F6, 6N7 P.P. 6V6, 6K6, 6BK5	A	10	BAH	2 13/16	2	3 1/4	2	1.25
21M68	Pri. 10,000CT Sec. 4K/5K/7.5K/ 10K/12K	70	60	Sgl. 6L6, 6F6, 6N7 P.P. 6V6, 6K6, 6BK5	A	10	BAV	2 3/8	2 1/4	2 7/8	2 1/8	1.5
TR-197	Pri. 32CT Sec. 3K/4K/6K	575	100	P.P. Transistor	B	10	BAV	2 3/8	2 1/4	2 7/8	2	1.3
21M74	Pri. 5,000* Sec. 6,750 and 4	165 Total		P.P. 2A3, 801A, 6A5, 6L6	A	20	BAV	2 13/16	2 3/4	3 1/8	2 1/8	1.8
21M75	Pri. 10,000CT Sec. 3K/5K/8K	10 Unb.	100	P.P. 6A6, 6N7, 2A3, 6F6, 6V6	B	20	BAH	3 1/8	2 5/16	3 11/16	2	1.6
21M76	Pri. 10,000CT Sec. 3K/5K/8K and 4	10 Unb.	100	P.P. 6A6, 6N7, 2A3, 6F6, 6V6	B	20	BAH	3 1/8	2 5/16	3 11/16	2	1.6
21M54	Pri. 6,600CT Sec. 4,000	100	100	P.P. 2A3, 801A, 6A5, 6B4, 6L6	AB	25	GGV	2 x 2	3 1/8	2 5/8	2 7/8	3.25
21M67	Pri. 10,000CT Sec. 3,000/5,000/ 6,500/8,000	100	100	Sgl. 6A6, 6N7 P.P. 2A3, 6F6, 6V6	B AB2	25	GGV	2 x 1 7/8	3 1/8	2 5/8	2 3/4	2.8
TR-198	Pri. 6 CT Sec. 3K/4K/6K	5 A.	200	P.P. Transistor	B	40	GGV	2 1/2 x 2 1/4	3 7/8	3 9/32	3 1/8	4.5
21M66	Pri. 500 Sec. 5K to 10K	210	200	Line		50	KTV	3 3/4 x 3 1/4	5 1/4	4 1/8	5 1/8	11
21M51	Pri. 3300/3800CT Sec. 4K/5K/7.5K/ 10K	260	170	P.P. 6L6, 807, HY-61 RK-41 P.P. Par 6L6	B	60	GTV ★	3 x 2 13/16	4 3/4	4	4 7/8	7.7
21M77	Pri. 4,250CT Sec. 3K/5K/8K	20 Unb.	200	P.P. 6L6, 807, HY-61 RK-41	B	60	GGV-2	2 3/4 x 2 3/4	4 1/4	3 5/8	3 7/8	6.5
21M56	Pri. 10,000CT Sec. 3.75K/6.6K	100	200	P.P. 800, 801A, HK24	AB	75	GGV	3 x 2 1/2	3 7/8	3 1/4	4 1/4	6.75
21M58	Pri. 15,000CT Sec. 6,250	200	200	P.P. 800, RK-18, RK-30, HK-354	AB	100	KTV	4 1/8 x 3 1/2	5 5/8	4 5/8	5 3/4	13
21M69	Pri. 9000/6900CT Sec. 3.3K/4K/5K/ 6.25K	200	300	P.P. RK-12, HY25, HY40Z, TZ40, 35T, T40, 100TL	B	175	GTV ★	3 x 3 13/16	4 3/4	4	6 1/4	11.5
25M78	Pri. 7,500CT Sec. 5,000	250	250	203A, 838, 805	AB	250	TSV	4 1/4 x 6	7 1/16	6 1/8	6 1/2	25
25M76	Pri. 9000/6700CT Sec. 4K/6K/8K	350	350	203A, 805, 75TL, 203Z	B	350	TYV	4 1/4 x 6	7 1/16	6 1/8	6 1/2	22
25M79	Pri. 11,000CT Sec. 5,500	400	400	833A	B	500	PUV	4 1/4 x 11 1/2	9 5/8	7 9/16	12	105
25M77	Pri. 12K/18KCT Sec. 6,250	500	500	810, 822, 4-250A	B	700	PUH	4 3/4 x 6 7/8	7	7 1/2	7 13/16	43
25M80	Pri. 9,000CT Sec. 7,500	500	500	833A	B	1,000	PUV	5 17/32 x 13 3/4	12 5/8	9 1/16	14 5/8	150

Multi-Match Modulation

Part No.	MADC Primary	MADC Secondary	Maximum Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
21M60	50	100	15	KTV	2 1/8 x 2 1/2	4	2 7/8	3 5/8	3.75
21M60A	50	100	15	*GTV	1 3/4 x 2	3 1/8	2 5/8	2 5/8	2
21M71	150	150	30	*GTV	2 1/4 x 2 1/2	4	3 1/4	3 1/2	4.2
21M61	125	250	60	PUV	2 5/8 x 1 3/4	4	3 1/8	4 7/8	8.75
21M61A	125	250	60	GGV	2 3/4 x 2 1/2	3 7/8	3 1/4	4	6.5
21M62	210	320	125	PUV	6 1/8 x 2 1/4	5 1/4	4 1/8	6 5/8	16.75
21M62A	210	320	125	GGV	3 1/4 x 3 1/2	5 1/4	4 3/8	4 3/4	15
21M72	225	225	125	*GTV	3 x 3 5/16	4 3/4	4	4 1/2	9.5
21M64	250	500	300	PUV	6 7/8 x 2 3/4	6	4 3/4	7 3/4	20
21M65	320	640	500	PUV	10 x 3 1/8	6 7/8	5 3/8	11	55

Secondary used as primary * Autoformer

★ GTV Mtg. Type same as GGV with lugs on side of shield.



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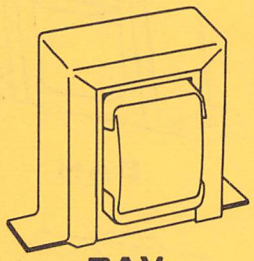
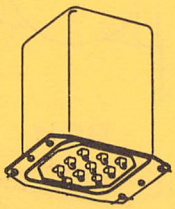


BAV

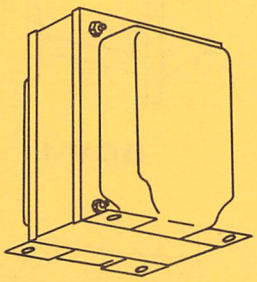
FGV

FGV SAME AS BAV BUT HAS FULLY ENCLOSED SHIELDS



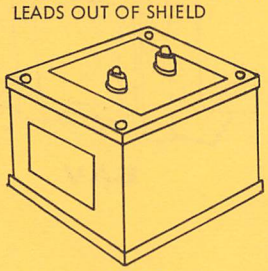
TTV

TYV SAME AS TTV WITH BUSHINGS
TSV SAME AS TTV WITH BUSHINGS ON TOP

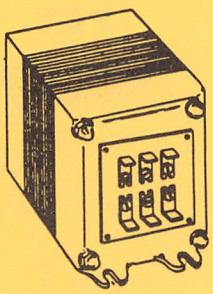


GGV

GGV-2 SAME AS GGV WITH LEADS OUT OF SHIELD



KTV



PUV PUH

Output Tube-Transformer Chart

Use this chart to simplify the selection of the proper output transformer for use as a replacement or in the construction of new equipment.
Locate the tube number in the first column, the correct transformer is found in the two adjacent columns at the right.
The "Exact" column lists transformers with single 3.5 ohm Voice Coil secondaries and the proper primary impedance for that tube.
The "Universal" column lists transformers with multiple secondary impedances.
All tubes are listed for single-ended operation unless otherwise marked by PP (Push-Pull).
All tubes are listed for Class A operation unless otherwise marked by B, AB_1, AB_2.
All transformers marked "Williamson" are for the ultra-linear screen tap Williamson type circuitry.

TUBE	TRANSFORMER EXACT	UNIVERSAL
1A5	24S99	22S86
1AC5	22S29	22S73
1AG4	24S54	22S86
1B8	24S54	22S86
1C5	24S49	22S86
1D8	24S40	22S86
1E7	24S59	24S60
1F4	24S54	22S86
1F5	22S27	22S73
1G5	24S52	24S60
1G6 PP	22S48	22S86
1H4 PP	24S93	24S60
1J5	24S54	22S86
1J6 PP	24S93	24S60
1LA4	24S54	22S86
1LB4	26S47	22S86
1N6	24S54	22S86
1Q5	24S49	22S86
1S4	26S49	22S86
1T5	26S47	24S60
1V5	24S54	24S60
1W4	26S47	24S60
2A3	22S45	22S87
2A3 PP	22S96	22S58
2A5	24S52	24S61
PP	22S44	22S56
2E24	22S25	24S04
2E26	24S51	24S61
2E30 PP	22S90	26S46
3A4	24S81	24S60
3B5	24S51	24S60
3B7 PP	22S47	22S86
3C5	24S81	22S86
3D6	24S54	24S60
3E5	24S81	24S80
3LE4	24S48	24S60
3LF4	24S49	24S60
3Q4	24S84	24S60
3Q5	24S81	22S86
3S4	24S49	22S86
3V4	24S83	24S60
3W4	24S83	22S61
4A6-G PP	22S47	22S86
5AQ5	24S51	22S58
$PP\text{-}AB_1$	24S56	22S56
5CM6	22S24	22S61
PP	24S19	26S46
5CZ5	26S49	24S61
PP	22S57	24S55
5V6	24S51	24S61
$PP\text{-}AB_1$	24S56	22S56
6A3	22S45	22S60
PP	24S95	22S74

TUBE	TRANSFORMER EXACT	UNIVERSAL
6A4-LA	24S81	22S86
6A5	26S58	24S60
6A6	22S56	22S88
6AB6G	24S82	24S04
6AB8	24S84	22S86
6AC5	24S49	24S60
PP-B	22S44	24S11
6AC6	24S48	24S05
6AD7G	24S52	24S60
$PP\text{-}AB_1$	22S48	24S61
6AE7 PP	22S94	24S56
6AG6	24S82	24S60
6AG7	24S83	24S60
6AH5	24S90	24S11
6AJ5		22S73
6AK6	24S83	24S60
6AK7	24S83	24S60
6AL6	22S60	24S61
PP-A	24S57	26S46
$PP\text{-}AB_1$	22S67	22S74
6AM5	24S54	22S48
$PP\text{-}AB_1$	24S59	22S48
6AN5	26S58	22S62
6AQ5 PP	22S66	26S46
$PP\text{-}AB_1$	24S56	22S56
6AR5	24S49	24S60
6AS5	24S48	24S60
6B4	26S58	22S62
PP-A	22S96	22S95
$PP\text{-}AB_1$	22S97	22S58
6B5	24S52	24S60
6BF5	22S45	22S62
6BJ5	24S52	24S04
6BK5	24S52	24S60
6BM5	24S52	24S04
6BM8	22S23	22S61
6BQ5	26S49	24S04
$PP\text{-}AB_1$	24S19	24S55
6BS5	24S51	24S04
6BU6	24S83	24S60
6BV7	24S52	24S05
6BW6	24S52	24S61
6CA5	24S48	24S60
6CA7	24S50	24S61
6CL6	24S81	24S60
6CM6	24S51	22S88
$PP\text{-}AB_1$	24S56	24S11
6CS5	24S50	22S79
6CU5	22S45	22S62
6CZ5	26S49	24S06
6D5	24S49	22S86
6DB5	24S53	22S61
6DG6	24S51	22S62

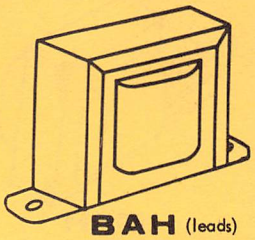
TUBE	TRANSFORMER EXACT	UNIVERSAL
6DS5	22S25	22S61
6DZ8	24S53	22S61
6E6	22S48	22S86
6EH5	22S22	24S04
PP-A	22S47	22S61
6F6	26S48	24S61
PP-A	22S64	24S55
$PP\text{-}A_1$	24S56	24S11
$PP\text{-}AB_2$	22S94	24S55
6G6	24S83	24S60
6K6	24S52	24S61
PP-A	26S46	24S11
6L6	26S49	24S61
PP-A	22S70	24S55
$PP\text{-}A_1$	22S74	22S65
Hi Fi	22S63	
Hi Fi	22S39	Williamson
6M5	24S52	24S60
6N6	24S52	24S60
6N7	22S44	24S11
6R8	24S83	24S60
6SR7	24S83	22S61
6U6	26S50	24S61
6V5	24S51	24S61
$PP\text{-}AB_1$	22S44	24S55
6V6	24S51	24S61
$PP\text{-}AB_1$	22S44	24S11
Hi Fi	22S03	Williamson
6V7	24S54	22S73
6W6	24S50	22S86
6Y6	24S50	22S86
6Y7 PP	22S48	24S61
6Z7 PP	22S48	24S61
7A5	26S58	22S86
7B5	24S52	24S61
$PP\text{-}AB_2$	22S93	26S46
7C5	24S52	24S61
$PP\text{-}AB_2$	22S44	22S56
8BQ5	24S51	24S04
9BM5	24S52	24S04
9BW6	24S52	22S87
9DZ8	24S53	24S04
11C5	26S58	22S61
12A	24S83	24S60
12A5	22S46	22S60
12A6	24S52	24S60
12A7	26S47	22S86
12AB5	24S51	22S58
12AQ5	24S51	22S58
$PP\text{-}AB_1$	24S56	22S74
12AS5	24S48	24S04
12BF6	24S83	22S61
12BK5	24S52	22S86

Output Tube - Chart

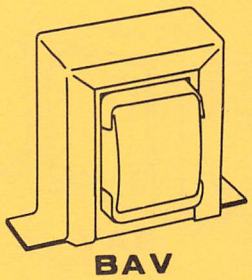
TUBE	TRANSFORMER EXACT	UNIVERSAL
12BU6	24S83	24S60
12C5	24S53	22S86
12CA5	24S51	24S60
12CM6	24S51	24S11
12CS5	24S51	24S05
12CU5	22S45	22S62
12DB5	24S53	22S86
12DM5	24S53	24S04
12DU7	24S53	22S61
12DZ8	26S58	24S04
12ED5	24S48	24S04
12EH5	22S22	24S04
PP-AB_1	22S47	24S04
12EM6	22S23	22S61
12G8	22S20	22S61
12J8	26S58	22S61
12L6GT	22S45	22S62
12L8	24S83	24S60
12SR7	24S84	24S60
12V6	26S49	22S58
PP-AB_1	22S44	22S56
12W6	24S53	22S62
14A5	24S49	24S60
14C5	26S49	22S58
PP-AB_1	22S44	22S56
16A5	24S51	24S05
17C5	24S53	22S86
17CA5	22S23	24S04
17CU5	24S53	24S04
17L6	22S46	24S05
19	24S93	24S60
19AQ5	24S51	24S51A
PP-AB_1	22S66	26S46
25A6	24S51	24S60
25A7	22S45	24S50
25AC5	24S53	22S86
PP-B	26S49	26S50
25B5	24S58	22S86
25B6	26S49	24S60
25BK5	24S52	24S60
25C5	24S53	22S86
25C6	24S53	22S86
25CA5	22S23	22S61
25EH5	22S22	22S61
25F5	26S58	24S04
25L6	24S53	22S85
25N6	24S53	22S86
25W6	24S51	24S05
26A7	22S45	22S85
26E6	22S45	24S04
28D7	24S48	24S60
31	24S48	22S86
32ET5	24S53	24S04

TUBE	TRANSFORMER EXACT	UNIVERSAL
32L7	26S58	22S60
33	22S26	24S04
35A5	24S48	24S60
35B5	26S58	22S62
35C5	26S58	22S62
35D28	26S58	22S62
35L6	26S58	22S62
41	24S52	24S61
PP-A	24S56	24S11
42	24S52	24S61
PP-A	22S44	24S11
PP-AB_2	24S58	26S46
43	24S51	24S60
45	24S51	24S60
PP-AB_2	22S70	26S46
46	24S49	24S60
PP-B	22S70	24S55
47	24S52	24S60
PP-A	22S48	22S87
48	22S45	24S60
49	24S83	22S87
50	26S49	24S64
50A5	24S53	22S60
50B5	22S45	22S60
50BK5	24S52	24S04
50C5	26S58	22S62
50C6	24S50	22S60
50CA5	22S23	22S61
50EH5	22S22	22S61
50L6	24S53	22S85
70A7	26S58	22S60
70L7	24S53	22S62
71A	24S48	24S60
79		24S06
85	22S30	22S73
89	22S26	22S61
112A	24S84	22S61
117L7	24S51	24S60
117M7	22S23	22S61
117N7	22S45	22S62
117P7	24S51	24S60
182B/482B	24S48	22S86
183/483	24S48	22S86
257	22S26	22S61
807	22S63	22S74
Hi Fi	22S65	Williamson
950	22S28	24S60
955	22S19	22S73
1222	SEE 6L6	
1614	22S44	24S11
PP-AB_1	22S67	22S64
Hi Fi	22S39	Williamson
1621	SEE 6F6	

TUBE	TRANSFORMER EXACT	UNIVERSAL
1622	SEE 6L6	
1625	SEE 807	
1631 PP	22S57	24S55
1632	22S20	22S61
1635	24S19	26S46
1644	22S50	24S60
5640	22S45	22S60
5670		22S73
5672	24S54	
5686	24S52	24S60
5812	22S20	24S04
5824	22S45	24S63
5871	24S52	24S61
5881	24S53	22S63
PP-AB	22S68	22S74
PP-A	22S63	26S46
Hi Fi	22S65	Williamson
5902	22S46	22S62
5930	SEE 2A3	
5932	SEE 6L6	
5992	SEE 6V6	
6005	22S56	24S64
6046	22S20	22S61
6095	24S56	24S14
6146	22S95	26S46
Hi Fi	22S69	
6216	24S51	24S04
6287	22S33	24S04
6360	22S57	26S46
6516	22S28	22S73
6526	24S83	24S60
6550	22S63	22S79
Hi Fi	22S39	Williamson
6669	24S48	24S04
6677	24S81	22S61
6945	26S58	22S61
6973 PP	22S54	24S55
PP-AB_1	22S57	24S55
7061	24S48	24S04
7189A	24S19	24S55
Hi Fi	22S06	Williamson
7212 PP	22S57	24S55
EL-34		24S61
6AC7 PP		24S55
EL-37		22S79
EL-84/		
6BQ5	24S51	24S61
PP-A	22S94	26S46
Hi Fi	22S03	Williamson
KT-66	22S63	
Hi Fi	22S65	Williamson
KT-88 PP	22S14	Williamson



BAH (leads)
BHH (lugs)



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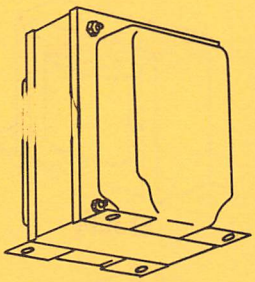
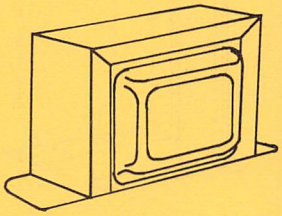
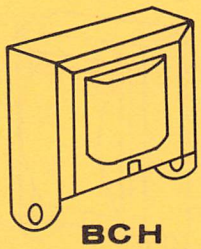


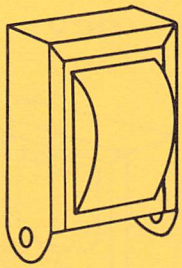
GGV



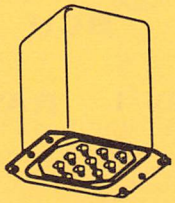
BGH



BCH



BCV



TTV (lugs)
TAV (leads)

TRANSFORMERS

Output

Single Plate to Line or Voice Coil

Part No.	Primary Impedance	Secondary Impedance	Pri. MADC	Watts	Mtg Type	Mtg Centers	Dimensions H	W	D	Wt. Lbs.
24S41	900	4/8	120	10	BAH	2 13/16	2	3 1/8	2	1.2
24S78	1,500	2/4/6	55	5	BAH	2	1 3/8	2 3/8	1 3/4	.5
22S45	1,500-3,000	3.5	55	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
22S20	2,000	3.5	50	3	BAV	1 1/2	1 7/16	1 7/8	1 1/4	.2
24S53	2,000	3.5	50	3	BAH	1 3/4	1 3/16	2 1/8	1	.2
24S50	2,000	3.5	55	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
24S50A	2,000†	3.5	55	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
24S85	2,000*	3.5	60	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
24S95	2,000 or 6,000	3.5	60 10	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
22S46	2-3,000	3.5	35	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
26S58	2,500	3.5	50	3	BAV	1 1/2	1 3/8	1 7/8	1 1/4	.2
24S87	2,500*	3.5	50	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
22S34	2,500	3.5	60	6	BAH	2 3/8	1 5/8	2 13/16	1 1/2	.6
22S15	2,500	4/8/16/500	80	8	GGV	1 3/4 x 1 5/8	2 3/4	2 3/8	2 3/8	1.75
24S88	2,500	4/8/16	60	10	BAH	2 13/16	2	3 1/8	1 3/4	1
22S22	3,000#	3.5	50	3	BAH	1 3/4	1 3/16	2 1/16	1 1/4	.21
24S89	3,000†	3.5	50	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
22S38	3,000	3.5	70	8	BAH	2 13/16	2	3 1/8	1 3/4	1
26S50	3,500	3.5	60	8	BAH	2 3/8	1 5/8	2 7/8	1 5/8	.75
22S23	4,000	3.5	50	3	BAV	1 1/2	1 7/16	1 7/8	1 1/4	.2
24S48	4-5,000	3.5	40	3	BAH	1 3/4	1 1/4	2 1/8	1	.4
22S32	4,000	3.5	50	5	BAV	1 3/4	1 5/8	2	1 3/8	.45
22S31	4,000	3.5	50	5	BAH	2	1 3/8	2 3/8	1 3/8	.45
24S115	4,000	8	40	5	BAH	2 3/8	1 5/8	2 7/8	1 5/8	.7
24S90	4,000	4/8/16	40	10	BAH	2 13/16	2	3 1/8	1 3/4	1
24S133	4,500	3.5	35	3	BGH	2	1 3/8	2 3/8	1 1/4	.3
27S03	4,800/7,600	4/8/16	40	2	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	1
22S24	5,000	3.5	35	3	BAV	1 1/2	1 7/16	1 7/8	1 1/4	.21
24S30	5,000	3.5	30	3	BCV‡	1 3/16	1 7/16	1 3/16	1	.2
24S51	5,000	3.5	40	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
24S51A	5,000†	3.5	40	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
22S17	5,000	4/8/16/500	45	5	BAH	2 13/16	2	3 5/16	1 3/4	1
27S15	5,000	4/8/16/150/600	55	5	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	2.25
27S70	5,000	4/8/16/250/500	55	5	AJ-1	1 5/8	2 3/8	1 5/8	1 5/8	.75
27S122	5,000	4/8/16/250/500	55	5	YY	1 13/16 x 1 11/16	3.049	2.521	2.381	2.25
25S38	5,000	4/8/16/150/500	55	5	TAV	1 3/4 x 2 11/16	3 1/8	2 1/4	3	2.25
25S43	5,000	4/8/16/150/500	55	5	TTV	1 3/4 x 2 11/16	3 1/8	2 1/4	3	2.25
26S49	5,000	3.5	50	8	BAH	2 3/8	2 5/8	1 7/8	1 5/8	.75
22S35	5,000	3.5	50	8	BAH	2 13/16	2	3 1/8	1 3/4	1
24S92	5,000	4/8/16	50	10	BAH	2 13/16	2	3 1/8	1 3/4	1
24S91	5,000	4/8/16/500	55	10	GGV	2 x 1 11/16	3 1/8	2 5/8	2 5/8	2.5
22S26	6,000	3.5	35	3	BAV	1 1/2	1 7/16	1 7/8	1 1/4	.21
24S94	6,000	3.5	10	3	BAH	1 3/4	1 3/16	2 1/8	7/8	.3
24S116	6,000	3.5	35	5	BCH	1 9/16 x 5/8	1 5/8	2	1 3/8	.8
22S25	6,500	3.5	35	3	BAH	1 3/4	1 3/16	2 1/8	1 1/4	.21
22S33	6,500	3.5	35	5	BAH	2	1 3/8	2 3/8	1 3/8	.45
24S49	7-8,000	3.5	30	3	BAH	1 3/4	1 3/16	2 1/8	1	.4
24S32	7,000	3.5	20	3	BCH	1 7/16	1 3/16	1 7/16	1	.25
24S33	7,000	3.5	30	5	BCV	1 3/8	1 11/16	1 3/8	1 1/4	.3
24S31	7,000	3.5	30	5	BCH	1 11/16	1 3/8	1 11/16	1 1/4	.3
24S52	7-10,000	3.5	30	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
26S48	7,000	3.5	40	8	BAH	2 3/8	1 5/8	2 7/8	1 5/8	.75
24S96	7,000	3.5	40	10	BAH	2 13/16	2	3 1/8	1 3/4	1
22S16	7,500	4/8/16/500	40	5	BHH	2 13/16	2	3 1/8	1 3/4	1
24S81	8,000	3.5	30	3	BAV	1 1/2	1 3/8	1 7/8	1	.25
24S82	8,000	3.5	30	3	BAH	1 3/4	1 3/16	2 1/8	1	.25
24S34	8,000	3.5	30	5	BCH	1 11/16	1 3/8	1 11/16	1 1/4	.3
27S16	8,000	4/8/16/150 600	55	5	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	2.25

* 5% Primary humbucking tap
† 3% and 6% Primary humbucking tap
‡ Twist leg mounting for slotted chassis or speaker housings
\# 6% Primary humbucking tap
27 SERIES

CONTINUED NEXT PAGE

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Output

Single Plate to Line or Voice Coil continued

Part No.	Primary Impedance	Secondary Impedance	Pri. MADC	Watts	Mtg. Type ✪	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27S123	8,000	4/8/16/150/600	55	5	YY	1 13/16 x 1 11/16	3.049	2.521	2.381	2.25
25S39	8,000	4/8/16/150/600	55	5	TAV	1 3/4 x 2 11/16	3 1/8	2 1/2	3	2.25
25S44	8,000	4/8/16/150/600	55	5	TTV	1 3/4 x 2 11/16	3 1/8	2 1/2	3	2.25
22S36	8,000	4/8/16/150/600	45	6	BAV	2	2	2 3/8	2	.6
24S35	9,000	3.5	30	5	BCH	1 11/16	1 3/8	1 11/16	1 1/4	.3
24S97	9,000/2,500	3.5	10 40	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
24S36	10,000	3.5	30	3	BCH	1 7/16	1 3/16	1 7/16	1	.2
24S37	10,000	3.5	30	3	BCV	1 3/16	1 7/16	1 3/16	1	.2
24S83	10,000	3.5	30	3	BAH	1 3/4	1 3/16	2 1/8	1 1/4	.2
24S84	10,000	3.5	30	3	BAV	1 1/2	1 3/8	1 7/8	1 1/4	.2
24S38	10,000	3.5	30	5	BCH	1 11/16	1 3/8	1 11/16	1 1/4	.3
24S39	10,000	3.5	30	5	BCV‡	1 3/8	1 11/16	1 3/8	1 1/4	.3
24S98	10,000	3.5	30	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
22S37	10,000	3.5	45	6	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.6
24S40	12,000	3.5	20	3	BCH	1 7/16	1 3/16	1 7/16	1	.2
22S18	14,000	3.5	5.5	.25	BAH	1 3/8	13/16	1 5/8	1	.08
24S54	15-20,000	3.5	10	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
22S28	16,000	3.5	15	3	BAV	1 1/2	1 7/16	1 7/8	1 1/4	.21
22S27	16,000	3.5	15	3	BAH	1 3/4	1 3/16	2 1/8	1 1/4	.21
22S19	25,000	3.5	4	.25	BAH	1 3/8	13/16	1 5/8	1	.08
22S30	25,000	3.5	10	3	BAV	1 1/2	1 7/16	1 7/8	1 1/4	.21
22S29	25,000	3.5	10	3	BAH	1 3/4	1 3/16	2 1/8	1 1/4	.21
24S99	25,000	3.5	5	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
MI-T47	50,000	3.5	.5	3MW	MAH	—	7/16	1/2	13/32	.09
MI-T48	50,000	3.5	.5	3MW	RAV-2	1-STUD	23/32	21/32 DIA.		.028
MI-T49	50,000	3.5	.5	3MW	RSV-1	1-STUD	23/32	21/32 DIA.		.028

Push-Pull Plates to Line or Voice Coil

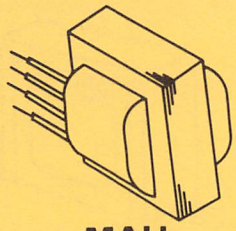
Part No.	Impedance Primary	Impedance Secondary	Balanced Pri. MADC	Watts	Mtg. Type ✪	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
22S106	1,500CT	8/16	200	50	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6.5
24S117	2,000CT	8/16/32	140	15	GGV	2 x 2 1/4	3 3/16	2 5/8	3 1/4	3.3
22S60	2,500/4,000CT	3.5/8	60	10	BAH	2 13/16	2	3 1/8	1 3/4	1.25
25S29	2,500/3,000CT**	8/16/600CT** and 4/150	130	40	UTV	2 11/16 x 3 5/16	5 9/16	3 11/16	4 5/16	9.5
22S107	2,500CT	8/16	150	50	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6.5
27S121	3,000/5,000CT**	8/16/600CT** and 4/150		15	YY	2 5/8 x 2 3/8	4.305	3.667	3.292	6
25S27	3,000/5,000CT**	8/16/600CT** and 4/150	100	15	UTV	2 1/8 x 2 5/8	4 7/8	3 1/16	3 9/16	6
27S11	3,000/5,000CT**	8/16/600CT** and 4/150	90	15	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	6
22S96	3,000/5,000CT	3.5/8/16	60	15	WTV	2 3/4 x 2 3/8	4 3/8	3	3 3/8	9.25
25S19	3,000/5,000CT	1.2/2.5/5/7.5 10/15/20/30		18	UTV	2 x 2 3/4	3 1/2	2 13/16	3 9/16	5
25S46	3,000/5,000CT	1.5/3/5/8/16/200/500		20	RC	2 3/8 x 2 3/8	3 3/4	3	3	3.5
22S72	3,000CT	3.5/8/16/250/500	90	25	GGV	1 3/4 x 2 USE 250 OHM TAP FOR 70.7 VOLT LINE @ 20 WATTS	3 1/8	2 5/8	2 5/8	2.5
22S95	3,000/5,000CT	3.5/8/16	60	25	GGV	1 3/4 x 2	3 1/8	2 5/8	2 5/8	2.5
22S41	3,000CT	8/16	175	50	GGV	2 3/4 x 3 1/16	4 5/16	3 1/2	4 1/4	7.5
22S10	3,300CT WITH SCREEN TAPS	4/8/16	130	50	GGV	3 x 3 3/8	4 5/8	4	4 1/2	8
25S51	3,300CT WITH SCREEN TAPS	4/8/16	90	50	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11
22S78	3,300CT	3.5/8/16/250/500	180	60	GGV	2 1/2 x 2 1/2	3 7/8	3 1/4	3 3/4	5.25

‡ Twist leg mounting for slotted chassis or speaker housings
** Split Center Tap

CONTINUED NEXT PAGE

✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



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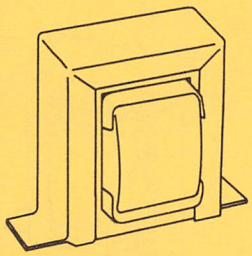

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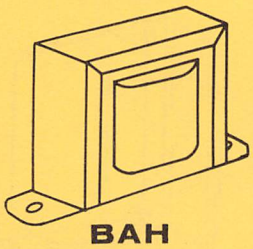
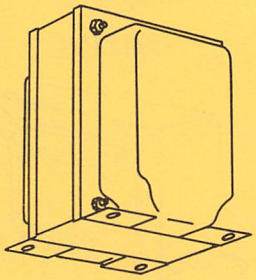


BAH



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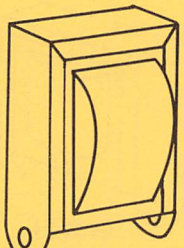

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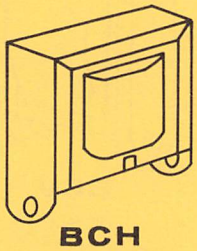

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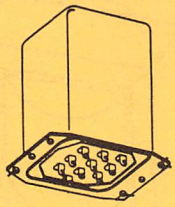
RSV-1 RAV-2

SEE PAGE 22, 23 & 24



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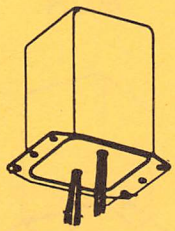

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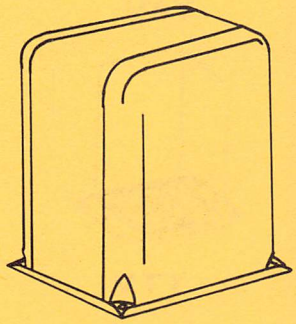

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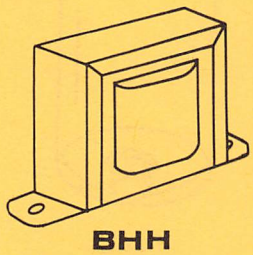

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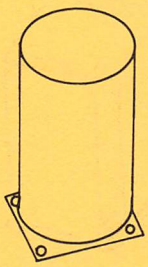

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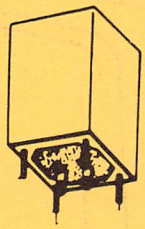


UTV

Push-Pull Plates to Line or Voice Coil

continued

Part No.	Impedance Primary	Impedance Secondary	Balanced Pri. MADC	Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24S142	3,300CT	4/8/16/ 25V./70V.	140	60	GGV	2 3/4 x 3 1/4	4 5/16	3 1/2	4 3/8	8
24S79	3,300/ 3,800CT	4/8/250/500	125	75	GGV	3 x 2 13/16	4 3/4	4	3 7/8	8
22S52	3,400CT	3.5	90	18	BAV	2 13/16	2 3/4	3 1/8	2	1.6
24S141	3,800CT	4/8/16/ 25V./70V.	130	50	GGV	2 3/4 x 3 1/4	4 5/16	3 1/2	4 3/8	8
MI-T62	4,000CT	3.2	0	4MW	MAH	—	7/16	1/2	13/32	.09
MI-T63	4,000CT	3.2	0	4MW	RAV-2	1-STUD	21/32	23/32 DIA.		.28
MI-T64	4,000CT	3.2	0	4MW	RSV-1	1-STUD	21/32	23/32 DIA.		.31
24S134	4,000CT	6-8	80	5	BAH	2	1 3/8	2 3/8	1 1/4	.45
22S21	4,000CT	8/16/32	75	7.5	BAH	3 1/8	2 1/4	3 3/4	2	2.2
22S12	4,000CT	4/8/16 WITH SCREEN TAPS	200	65	GGV	2 3/4 x 3 1/2	4 1/4	3 5/8	4 5/8	9.7
25S80	4,000CT	4/8/16 WITH SCREEN TAPS	100	65	TTV	2 1/2 x 4 3/4	5 5/16	5 1/4	4 1/2	10
27S67	4,000CT**	4/8/16 WITH SCREEN TAPS	200	65	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
27S68	4,000CT**	125/250/500 WITH SCREEN TAPS	200	65	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
22S13	4,000CT	4/8/16 WITH SCREEN TAPS	210	70	GGV	3 x 3 7/8	4 5/8	4	5	12.5
25S76	4,300CT■	8/16 WITH SCREEN TAPS		65	TAV	2 1/2 x 4 3/4	5 5/16	5 1/4	4 9/16	12
24S77	4,400CT##	4/8/16/ 250/500	70	30	GGV	2 x 2 1/4	3 5/8	3	3 1/8	3.5
22S11	4,500CT	4/8/16	140	50	GGV	2 3/4 x 3 1/2	4 1/4	3 5/8	4 5/8	8.25
27S66	4,500CT**	4/8/16	180	55	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
22S14	4,500CT WITH SCREEN TAPS		120	100	GGV	3 1/2 x 4 1/8	5 5/16	4 9/16	5 1/8	14.7
22S58	5,000/ 7,000CT	3.5/8	45	10	BAH	2 13/16	2	3 1/8	1 3/4	1.25
24S17	5,000CT	4/8/16	80	15	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1
22S54	5,000CT	3.5	60	18	BAV	2 13/16	2 3/4	3 1/8	2	1.6
25S77	5,000CT	4/8/16	75	18	TAV	1 1/2 x 2 3/8	1 1/2	2 11/16	2 1/4	1.75
24S43	5,000CT	2/4/8/16/ 250/500	70	20	BHH	3 1/8	2 3/16	3 11/16	2	1.5
22S04	5,000CT	4/8/16	80	20	GGV	2 x 2 7/8	3 1/8	2 3/4	3 5/8	4.3
22S05	5,000CT	125/250/500	80	20	GGV	2 x 2 7/8	3 1/8	2 3/4	3 5/8	4.3
27S60	5,000CT**	4/8/16	80	20	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	6.5
27S12	5,000CT	4/8/16/ 150/600	120	20	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	6.5
25S35	5,000CT	4/8/16/ 150/600	120	20	TAV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6.5
25S40	5,000CT	4/8/16/ 150/600	120	20	TTV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6.5
22S70	5,000CT	3.5/8/16/ 250/500	80	25	GGV	1 3/4 x 2	3 1/8	2 5/8	2 5/8	2.5
			USE 250 OHM TAP FOR 70.7 VOLT LINE @ 20 WATTS							
25S50	5,000CT	4/8/16/70V. WITH SCREEN TAPS	90	25	RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
22S71	5,000CT	4/8/16/ 250/500	80	30	GGV	2 x 2 1/4	3 5/8	3	3 3/8	3.7
22S63	5,000CT	8/16	150	50	GGV	2 3/4 x 3 1/6	4 5/16	3 1/2	4 1/4	6
25S75	5,000CT■	8/16/70V. WITH SCREEN TAPS		100	TAV	3 1/2 x 5 3/8	6 1/16	5 7/8	5 5/16	16
22S47	6,000/ 7,000CT	3.5	35	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
25S47	6,000/ 10,000CT	1.5/3/5/8/ 16/200/500		20	RC	2 3/8 x 2 3/8	3 3/4	3	3	3.5
25S20	6,000CT	4/8/16 WITH SCREEN TAPS		20	UTV	2 x 2 3/4	3 1/2	2 13/16	3 9/16	5
22S98	6,000CT	3.5/8/16/ 250/500	60	20	WTV	2 3/4 x 2 3/8	4 3/4	3	3 3/8	7.25
22S97	6,000CT	3.5/8/16/ 250/500	60	25	GGV	2 x 1 3/4	3 1/8	2 5/8	2 5/8	2.5
			USE 250 OHM TAP FOR 70.7 VOLT LINE @ 20 WATTS							
24S119	6,000CT	4/8/16/500	100	30	GGV	2 1/4 x 2	3 5/8	3	3 1/8	3.5
27S14	6,000CT	4/8/16/ 150/600	250	30	MA	3 11/16 x 3	6	4 11/16	4	9
25S37	6,000CT	4/8/16/ 150/600	250	30	TAV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	9

** Split Center Tap ■ Has cathode feedback winding ## Has extra 10% feedback winding

✪ 27 SERIES

CONTINUED NEXT PAGE

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Output

Push-Pull Plates to Line or Voice Coil Continued

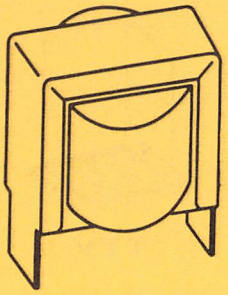
Part No.	Impedance Primary	Impedance Secondary	Balanced Pri. MADC	Watts	Mtg. ✪ Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
25S42	6,000CT	4/8/16/ 150/600	250	30	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	9
22S68	6,500CT	3.5/8/16/ 250/500	70	25	GGV	1 3/4 x 2 USE 250 OHM TAP FOR 70.7 VOLT LINE @ 20 WATTS	3 1/8	2 5/8	2 5/8	2.5
22S39	6,600CT WITH SCREEN TAPS	4/8/16	100	20	TAV	2 3/4 x 3 7/8	4 1/4	3 9/16	4 7/16	4
22S07	6,600CT WITH SCREEN TAPS	4/8/16	80	25	GGV	2 1/4 x 3 1/8	3 1/2	3	4 1/4	5.75
24S138	6,600CT	4/8/16/ 25V./70V.	80	25	GGV	2 x 2	3 1/8	2 5/8	3	3
27S64	6,600CT WITH SCREEN TAPS	4/8/16	80	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7.5
27S65	6,600CT WITH SCREEN TAPS	125/250/500	80	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7.5
22S09	6,600CT WITH SCREEN TAPS	4/8/16	80	30	GGV	2 1/4 x 2 5/8	3 1/2	3	3 3/4	5
24S139	6,600CT	4/8/16/ 25V./70V.	80	30	GGV	2 1/4 x 2 1/4	3 1/2	3	3 3/8	4.5
24S140	6,600CT	4/8/16/ 25V./70V.	100	35	GGV	2 1/4 x 2 5/8	3 1/2	3	3 3/4	5
24S57	6,600CT	4/8/16/ 250/500	150	35	GGV	2 1/2 x 2 3/16	4	3 1/4	3 1/8	4
24S18	6,600CT##	4/8/16/500	150	35	GGV	2 1/2 x 2 3/16	4	3 1/4	3 3/8	4.8
22S67	6,600CT	8/16	125	50	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6
24S58	7,000/ 10,000CT	3.5/8/16/ 500	60	25	GGV	2 x 1 11/16	3 3/16	2 5/8	2 5/8	2.7
22S42	7,400CT WITH SCREEN TAPS	4/8/16	100	40	GGV	2 1/2 x 2 7/8	3 7/8	3 1/4	3 7/8	6
22S43	7,400CT WITH SCREEN TAPS	4/8/16	100	40	TAV	2 3/4 x 3 7/8	4 1/4	4 7/16	3 5/8	7.5
25S26	7,500CT	8/20	120	20	UTV	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	5.75
22S65	7,600CT	4/8/16	100	25	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6
24S143	8,000CT	8	60	10	BAH	2 13/16	2	3 1/8	2 1/8	1
22S56	8,000/ 10,000CT	3.5/8	35	10	BAH	2 13/16	2	3 1/8	1 3/4	1.2
22S01	8,000CT	4/8/16	40	15	GGV	2 x 2 5/8	3 1/8	2 5/8	3 3/8	3.8
22S02	8,000CT	125/250/500	40	15	GGV	2 x 2 5/8	3 1/8	2 5/8	3 3/8	3.8
22S03	8,000CT WITH SCREEN TAPS	4/8/16	50	15	GGV	2 x 2 5/8	3 1/8	2 5/8	3 3/8	3.8
27S56	8,000CT**	4/8/16	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	6.5
27S57	8,000CT**	125/250/600	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	6.5
27S58	8,000CT** WITH SCREEN TAPS	4/8/16	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	6.5
27S59	8,000CT** WITH SCREEN TAPS	125/250/600	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	6.5
22S57	8,000CT	3.5	55	18	BAV	2 13/16	2 3/4	3 1/8	2	1.6
24S144	8,000CT	8	80	18	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.5
22S55	8,000CT	3.5	55	18	GGV	1 3/4 x 1 5/8	2 13/16	2 3/8	2 3/8	1.75
24S145	8,000CT	8/25V./70V.	100	20	BAH	3 1/8	2 1/4	3 11/16	3 1/8	1.5
25S45	8,000CT	1.5/3/5/8/ 16/200/500		20	RC	2 3/8 x 2 3/8	3 3/4	3	3	3.5
24S137	8,000CT	4/8/16/ 25V./70V.	80	25	GGV	2 x 2	3 1/8	2 5/8	3	3
22S06	8,000CT WITH SCREEN TAP		100	25	GGV	2 1/4 x 3 1/8	3 1/2	4	4 1/4	6
22S66	8,000CT	3.5/8/16/ 250/500	60	25	GGV	1 3/4 x 2 USE 250 OHM TAP FOR 70.7 VOLT LINE @ 20 WATTS	3 1/8	2 5/8	2 5/8	2.5
27S61	8,000CT** WITH SCREEN TAPS	4/8/16CT**	100	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7.5
24S120	9,000CT	3.2	40	5	BCH	1 13/16 x 11/16	2	2 3/8	1 5/8	1
27S72	9,000CT	4/8/16/ 250/500	120	25	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	3
25S49	9,000CT	1.5/3/5/8/ 16/200/500		30	RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
24S121	9,000CT	4/8/15/500	150	35	GGV	2 1/2 x 2 3/16	4	3 1/4	3 3/8	4.8
22S69	9,000CT	8/16	100	50	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6
22S44	9,500CT	3.5/8/16	35	12	VAV	1 7/8 x 2	3	2 1/2	2 3/8	2.5
24S136	9,500CT	4/8/16/ 25V./70V.	40	15	GGV	2 x 1 3/4	3 1/8	2 5/8	2 5/8	2.5
22S49	9,500CT WITH SCREEN TAPS	4/8/16	100	15	TAV	2 3/4 x 3 7/8	4 1/4	3 9/16	4 7/16	4
22S94	9,500CT	3.5/8/16	50	20	WTV	2 3/4 x 2 3/8	4 3/8	3	3 3/8	7.25
22S93	9,500CT	3.5/8/16	50	25	GGV	2 x 1 3/4	3 1/8	2 5/8	2 5/8	2.5
25S68	10,000CT	4/8		750MW	TAJ	3/8 HOLE	1 3/4	1 3/8 DIA.		.35

** Split Center Tap
Has extra 10% feedback winding

CONTINUED NEXT PAGE

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS, AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



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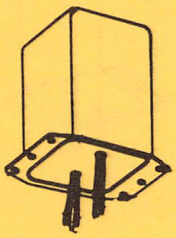

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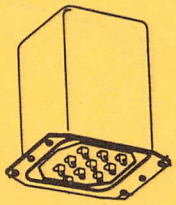

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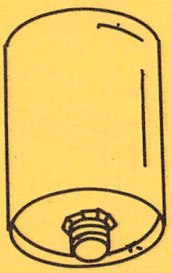

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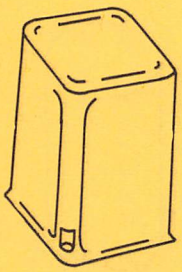

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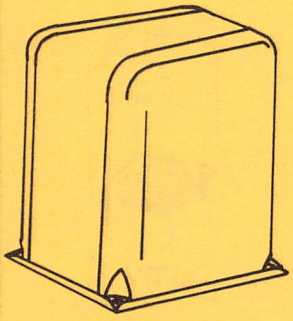

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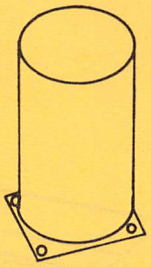

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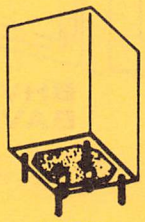

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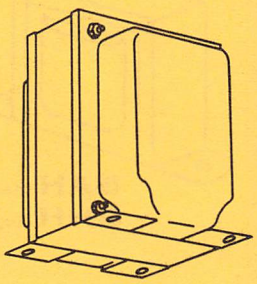

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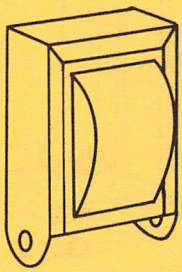

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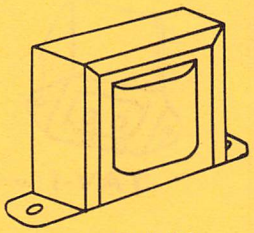
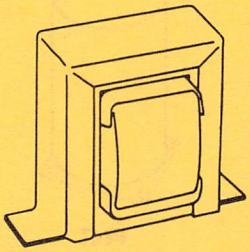


BAH



BAV

Push-Pull Plates to Line or Voice Coil Continued

Part No.	Impedance Primary	Impedance Secondary	Balanced Pri. MADC	Watts	Mtg. Type ✪	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24S93	10,000CT	3.5	40	5	BAH	2	1 3/8	2 3/8	1 1/4	.4
22S48	10,000/ 12,000CT	3.5	8	5	BAH	2	1 3/8	2 3/8	1 1/4	.5
27S10	10,000CT**	8/16/600CT** and 4/150	80	5	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8	4
27S120	10,000CT**	8/16/600CT** and 4/150	80	5	YY	2 3/8 x 2 1/8	3.867	3.245	2.979	4
25S25	10,000CT**	8/16/600CT** and 4/150	80	5	UTV	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8	4
25S30	10,000CT	8/16/600CT**	80	5	UTV	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	6
24S56	10,000CT	2/4/8	75	8	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.7
24S122	10,000CT	4	50	10	BCV	1 9/16 x 5/8	2 3/8	2	1 5/8	1
25S78	10,000CT	4/8/15 and 2,000	30	10	TAV	1 1/2 x 2 3/8	2 7/8	2 11/16	2 1/4	1.5
27S71	10,000CT	4/8/15/ 250/500	50	10	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16	1.5
26S59	10,000CT	4/8/16	30	12	BAH	2 13/16	2	3 1/8	1 3/4	1
24S19	10,000CT	4/8/16	60	12	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1
24S44	10,000CT	2/4/8/16/ 250/500	45	15	BHH	2 13/16	2	3 1/4	1 3/4	1
						USE 500 OHM TAP FOR 70.7 VOLT LINE @ 10 WATTS				
27S13	10,000CT■	4/8/16/ 150/600	200	15	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	5
25S36	10,000CT■	4/8/16/ 150/600	200	15	TAV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5
25S41	10,000CT■	4/8/16/ 150/600	200	15	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5
25S31	10,000CT WITH SCREEN TAPS	4/8/16	130	20	UTV	2 1/8 x 2 5/8	4 7/8	3 1/16	3 9/16	7
22S64	10,000CT	3.5/8/16/ 250/500	50	25	GGV	1 3/4 x 2	3 1/8	2 5/8	2 5/8	2.5
22S08	10,000CT WITH SCREEN TAPS	4/8/16	80	25	GGV	2 1/4 x 3 1/8	3 1/2	3	4 1/4	6
27S62	10,000CT WITH SCREEN TAPS	4/8/16	100	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7.1
27S63	10,000CT WITH SCREEN TAPS	125/250/500	100	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7.1
22S50	12,000CT	3-4	30	4	BAH	2	1 3/8	2 3/8	1 3/8	.45
26S47	14,000CT	3.5	35	12	BAH	2 13/16	2	3 1/8	2	1
24S20	14,000CT	4/8/16	60	15	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1
25S48	14,000/ 20,000CT	1.5/3/5/8/ 16/200/500		20	RC	2 3/8 x 2 3/8	3 3/4	3	3	3.5
27S54	20,000CT**	4/8/16	20	5	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	2
27S55	20,000CT**	62.5/150/ 250CT/600CT	20	5	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	2
24S26	20,000CT	4/8/16	50	15	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1
24S59	25,000CT	3.5	20	5	BAH	2	1 3/8	2 3/8	1 3/8	.4
24S28	50,000CT	3.5	20	5	BAH	2	1 3/8	2 3/8	1 1/4	.4
24S29	50,000CT	3.5	20	8	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.6

** Split Center Tap

■ Has cathode feedback winding

✪ 27 SERIES

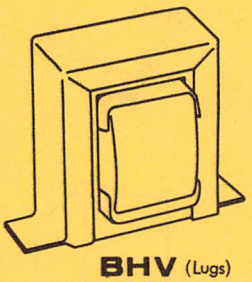
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Output

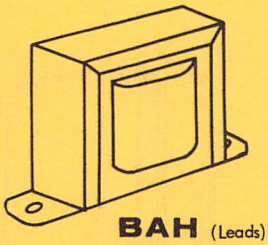
Universal Output

SINGLE OR PUSH PULL PLATES TO VOICE COIL

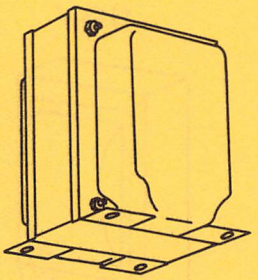
Part No.	Primary Impedance	Secondary Impedance	Primary MADC	Watts	Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
22S61	2,000 to 10,000CT	.64 to 26.3	30	2	BAH	1 3/4	1 3/16	2 1/16	1 1/4	.21
22S86	2,000 to 14,000CT	3.5/8	50	3	BAH	2	1 3/8	2 3/8	1 1/4	.5
24S04	4,000 to 14,000CT	.1 to 50	35	4	BHH	2	1 3/8	2 3/8	1 1/4	.5
24S05	2,000 to 13,000CT	.1 to 50	50	4	BHH	2	1 3/8	2 3/8	1 1/4	.5
24S60	4,000 to 14,000CT	.1 to 30	35	4	BHH	2	1 3/8	2 3/8	1 1/4	.5
22S73	4,000 to 24,000CT	1.3 to 24.5	25	4	BAH	2	1 3/8	2 3/8	1 3/8	.5
22S87	2,000 to 14,000CT	3.5/8	50	6	BAH	2	1 3/8	3 1/8	1 3/8	1
24S09	2,500 to 13,000CT	.1 to 50	70	8	BHV	2	2	2 3/8	2 1/8	.75
24S08	4,000 to 20,000CT	.5 to 50	50	8	BHV	2	2	2 3/8	2 1/8	.75
24S07	4,000 to 10,000	3 to 8	40	8	BHH	2 3/8	1 5/8	2 7/8	1 1/2	.75
24S06	4,000 to 14,000CT	.1 to 50	40	8	BHH	2 3/8	1 5/8	2 7/8	1 1/2	.75
24S61	4,000 to 14,000CT	.1 to 30	40	8	BHH	2 3/8	1 5/8	2 7/8	2	1
24S63	1,500 to 4,500	.1 to 7.2	75	8	BHH	2 13/16	2	3 1/8	1 5/8	1
22S62	1,500 to 4,000CT	.1 to 30	50	8	BHH	2 13/16	2	3 1/8	2 1/8	1.25
22S88	2,000 to 14,000CT	3.5/8	50	8	BAH	2 13/16	2	3 1/8	1 3/8	1
24S64	1,500 to 10,000	.02 to 30	55	10	BHH	2 3/8	1 5/8	2 7/8	1 1/2	.7
24S11	2,500 to 14,000CT	.1 to 30	50	10	BHV	2 3/8	2 3/8	2 7/8	1 1/2	1
25S52	3,000 to 14,000CT	1.5/3/5/8/16/ 50/200/500		12	RC	2 3/8 x 2 3/8	3 3/4	3	3	3.5
22S79	6,000 to 15,000	.35 to 24	85	12	BAV	2 13/16	2 3/4	3 1/8	2	1.6
24S13	2,500 to 13,000CT	.1 to 50	75	15	BHV	2 3/8	2 3/8	2 7/8	2 3/8	1.5
22S89	1,500 to 6,000CT	.8 to 25.4	87	15	BAV	2 13/16	2 3/4	3 1/8	2	1.6
24S12	3,500 to 14,000CT	.1 to 50	40	18	BHV	2 3/8	2 3/8	2 7/8	2	1.33
26S46	4,000 to 14,000CT	.1 to 30	40	18	BHV	2 3/8	2 3/8	2 7/8	2 1/4	1.5
24S14	4,000 to 14,000CT	.1 to 50	50	18	BHH	2 13/16	2	3 1/8	2	1.25
24S15	8,000 to 14,000CT	4/8/16/500	60	18	GGV	2 x 1 7/16	3 1/8	2 5/8	2 1/2	2.25
24S55	3,000 to 10,000CT	1 to 30	60	20	BHV	2 13/16	2 5/8	2 1/4	3 5/16	1.8
24S16	4,000 to 14,000CT	.1 to 5	60	20	BHV	3 1/8	3 1/8	3 5/8	2 1/2	3
24S42	3,000 to 10,000CT	.17 to 32	70	24	BHH	3 1/8	2 1/4	3 11/16	2 1/8	1.8
22S74	2,500 to 14,000CT	1 to 30	80	25	BHH	3 5/8	2 1/2	4	2 5/8	2.5
25S53	3,000 to 14,000CT	1.5/3/5/8/16/ 50/200/500		30	RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
25S54	3,000 to 14,000CT	1.5/3/5/8/16/ 50/200/500		60	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11



BHV (Lugs)
BAV (Leads)



BAH (Leads)
BHH (Lugs)

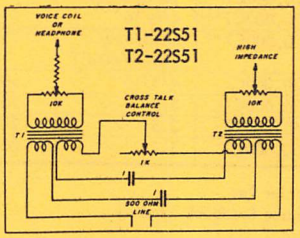


GGV

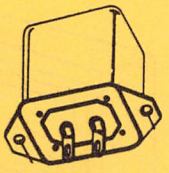
Hybrid Circuit Output

The circuit shown at the right is a typical 'Patch' hybrid circuit using two 22S51 transformers.

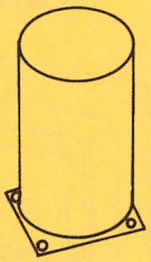
This circuit is ideally suited for use in duplex radio communications where two way communication to and from a remote point is desired. It may also be adapted to operate sound distribution systems or speech amplifier and modulator for transmission from remote point. The output from a radio receiver may then be connected to the transformer marked T2 so that the received signal may be transmitted (through the 500 ohm line) to the remote point.



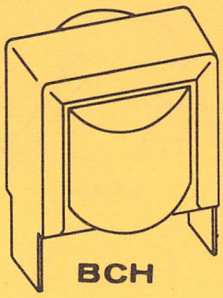
Part No.	Impedance in Ohms Primary	Secondary	Mtg. Type	Mtg. Centers	Dimensions H.	W. x D.	Wt. Lbs.
22S51	10,000	500 each	TAV-1	1 15/16	1 15/16	1 9/16 x 2 1/4	1.0



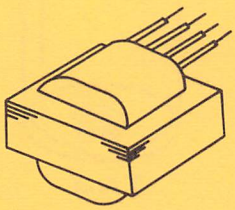
TAV-1 (Leads)



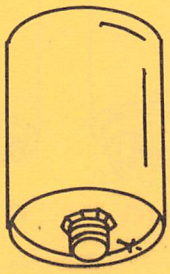
RC



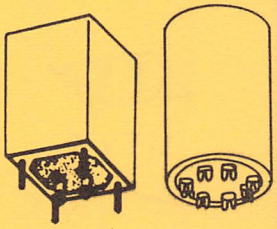
BCH



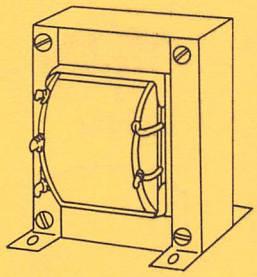
MAH



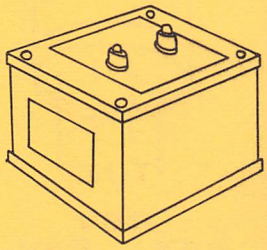
TAJ



UTV RTV



LHV



KTV

ZZ

SEE GREEN PAGES FOR COMPLETE MOLDED (ZZ) LISTINGS.

PCT

SEE PAGE 10 FOR COMPLETE PCT LISTINGS

TRANSFORMERS

Output

Line to Voice Coil

Part No.	Impedance Primary	Impedance Secondary	Output Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
TR-141	600	3.2	.025	ZZ	-	.312	.426	.400	.1
TR-53	500CT	3.2	.050	MAH	-	7/16	1/2	7/16	.1 oz.
TR-49	500CT	10	.050	MAH	-	7/16	1/2	7/16	.1 oz.
27S105	600CT	3.2	.050	ZZ	-	.465	.310	.410	.1
27S95	600CT	12	.050	ZZ	-	.465	.310	.410	.1
25S67	500**	4/16**	.100	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.		.35
TR-27	500CT	3.2	.150	BCH	13/16	11/16	13/16	5/8	.05
TR-337	500CT	3.2	.150	PCT	Printed Ckt.	11/16	3/4	9/16	.05
TR-18	500CT	16.4	.150	BCH	13/16	11/16	13/16	5/8	.05
TR-328	500CT	16.4	.150	PCT	Printed Ckt.	11/16	3/4	9/16	.05
TR-102	500CT	4/8/16	.150	BCH	13/16	11/16	13/16	5/8	.05
TR-103	600CT	4/8/16	.150	BCH	13/16	11/16	13/16	5/8	.05
TR-220	500CT	3.2	.250	MAH	-	19/32	7/8	43/64	.03
27S52	500CT	3.2	.250	ZZ	-	23/32	3/4	1	.05
TR-110	48CT(50)	4/8/16	.300	BAH	1 3/8	3/4	1 5/8	13/16	.1
TR-8	48CT(50)	4/8	.300	BAH	1 3/8	3/4	1 5/8	13/16	.1
TR-114	500CT	4/8/16	.300	BAH	1 3/8	3/4	1 5/8	13/16	.1
TR-18	500CT	16.4	.300	BAH	1 3/8	3/4	1 5/8	13/16	.1
22S100	50■	3.5	1	BAH	1 3/4	1 3/16	2 1/16	1 1/4	.21
25S06	400-500CT	3.2-4	1	RTV	11/16	1 3/16	7/8 Dia.		.06
25S11	500CT	4/16**	1	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2	.5
27S26	500CT	4/16**	1	RC	1 5/16 x 1 5/16	2 1/4	1 5/8	1 5/8	.5
GEO-43	500**	4/16	1	2	1	1 11/16	1 1/16	7/8	4.2
27S01	600**	4/8/16	2	AJ †	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	1
22S118	45-50	3.5/6-8	3	BHH	2	1 3/8	2 3/8	1 1/2	.5
22S102	500	4/8/16	3	BAH	2	1 3/8	2 3/8	1 3/8	.45
22S101	50/500	3.5	4	BAH	1 3/4	1 3/16	2 1/16	1 1/4	.21
TR-61	48CT(50)	3.2/8/16	5	BHV	1 3/4	1 3/4	2	1 1/4	.5
22S103	500	4/8	5	BAH	2	1 3/8	2 3/8	1 3/8	.45
24S75	500	4/8	5	BHH	2	1 3/8	2 3/8	1 1/4	.45
22S81	45/50	3.5/8	8	BAH	2 3/8	1 5/8	2 7/8	1 5/8	1
22S80	500/600	3.5/8/16	8	BHH	3 1/8	2 1/4	3 3/4	2 1/4	1.5
22S84	500/1,000/1,500/2,000	3.5/8/16	8	BAH	2 13/16	2	3 1/8	1 3/4	1
24S46	500/1,000/1,500/2,000	3.5/8	8	BHH	2 3/8	1 5/8	2 7/8	1 5/8	1.2
22S85	500/1,000/1,500/2,000	3.5/8/16	8	BAH	2 3/8	1 5/8	2 7/8	1 5/8	1.2
22S104	31/62.5/125/250	4/8/16	10	BHV	2 13/16	2 23/32	3 1/8	2 1/8	1.8
24S66	500/1,000/1,500/2,000	3.5/8	10	BAV	2	2	2 1/2	1 5/8	1
24S47	500/1,000/1,500/2,000	3.5/8	12	BHV	2 3/8	2 5/16	2 7/8	1 7/8	1.2
24S10	2,500/4,000/6,000/8,000	6-8	12	BAV	2 3/8	2 5/16	2 7/8	1 3/4	1.1
25S57	500	.2 to 75	15	RC	2 3/32 x 2 3/32	3 1/4	2 9/16	2 9/16	2.5
24S45	500	4/6/8/15	15	BHV	2 3/8	2 5/16	2 7/8	1 3/4	1.2
22S83	500/1,000/1,500/2,000	3.5/8/16	15	BAH	3 1/8	2 1/4	3 3/4	2	2.25
24S67	500/1,000/1,500/2,000	3.5/8	18	BHV	2 3/8	2 5/16	2 7/8	2	1.7
22S82	500/1,000/1,500/2,000	3.5/8	25	BHH	3 5/8	2 1/2	4	2 5/8	2.25
24S00	500/1,000/1,500	4/8/16	25	BHV	3 1/8	3 1/8	3 5/8	2 1/4	2.5
22S105	500**	2/4/8/16/32	30	LHV	2 1/4 x 3 1/8	3 7/16	2 13/16	4 9/16	5
25S58	500	.2 to 75	40	RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
25S79	4	.01/.05/.1 .25/.5/1	50	KTV	2 5/8 x 3 1/8	4 7/16	4 7/16	3 5/16	6
	VOICE COIL TO MULTIPLE VOICE COIL								
25S59	500	.2 to 75	75	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11

Line to Multiple Voice Coil

Part No.	Impedance In Ohms	Output Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24S76	Pri. 500/1,000/1,500/2,000/2,500/3,000 Sec. .06 to 8 ohms when pri. is 500 ohms .12 to 16 ohms when pri. is 1,000 ohms, etc.	15	BHV	2 3/8	2 5/16	2 7/8	2	1.4
24S62	Pri. 500/1,000/1,500/2,000/2,500/3,000 Sec. .06 to 8 ohms when pri. is 500 ohms .12 to 16 ohms when pri. is 1,000 ohms, etc.	25	BAV	3	3	3 3/8	2 1/8	2

Tube or Crystal Cutter and Voice Coil

Part No.	Primary-Secondary Impedance	MADC	Output Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
22S99	5,000 ohm plate to 10,000 ohm crystal and 3.2 ohm	50	4	BGH	2 7/8	2	3 1/8	1 3/4	1.25

** Split Center Tap ■ Autoformer † See page 27 for case

Output

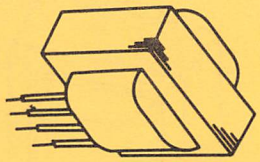
Tube to Line or Line Mixer Continued

Part No.	Impedance Primary	Impedance Secondary	Primary MADC	Output Watts	Mtg. ✪ Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
MI-T151	10,000	200	1	.001	MAH	–	7/16	1/2	7/16	.015
27S86	10,000	200	1	.001	TJZ	–	25/32	9/16 Dia.		.03
25S01	15,000	50/200-250/500-600	0	.006	RTV	11/16	1 3/16	7/8 Dia.		.06
25S07	15,000	50/200-250/500-600	0	.006	Plug In	8 Pin Octal	1 15/32	1 3/32 Dia.		.12
25S02	15,000	50/200-250/500-600	4	.006	RTV	11/16	1 3/16	7/8 Dia.		.06
25S08	15,000	50/200-250/500-600	4	.006	Plug In	8 Pin Octal	1 15/32	1 3/32 Dia.		.12
25S03	30,000CT	50/200-250/500-600	0*	.006	RTV	11/16	1 3/16	7/8 Dia.		.06
25S09	30,000CT	50/200-250/500-600	0*	.006	Plug In	8 Pin Octal	1 15/32	1 3/32 Dia.		.12
MI-T73	25,000	500	.5	.009	MAH	–	7/16	3/4	5/8	.023
MI-T74	25,000	500	.5	.009	RAV-3	1 5/32	29/32	7/8 Dia.		.059
MI-T75	25,000	500	.5	.009	RSV-2	1 5/32	29/32	7/8 Dia.		.063
MI-T76	30,000	50	1	.009	MAH	–	7/16	3/4	5/8	.023
MI-T77	30,000	50	1	.009	RAV-3	1 5/32	29/32	7/8 Dia.		.059
MI-T78	30,000	50	1	.009	RSV-2	1 5/32	29/32	7/8 Dia.		.063
MI-T79	100,000	60	.25	.009	MAH	–	7/16	3/4	5/8	.023
MI-T80	100,000	60	.25	.009	RAV-3	1 5/32	29/32	7/8 Dia.		.059
MI-T81	100,000	60	.25	.009	RSV-2	1 5/32	29/32	7/8 Dia.		.063
22S53	8,000 to 15,000 CT**	50/125/200/250/333/500	1	.01	RAV	2 1/4	2 5/8	1 3/4		1
MI-T165	12,000CT	150/600**	2*	.01	BAH	1	5/8	1 7/32	3/4	.045
MI-T162	15,000	50/250/600	0	.01	BAH	1	5/8	1 7/32	3/4	.045
MI-T163	15,000	50/250/600	3	.01	BAH	1	5/8	1 7/32	3/4	.045
27S80	15,000	50/250/600	0	.01	AF-1	1 3/64	1 5/32	13/16	13/16	.12
27S81	15,000	50/250/600	3	.01	AF-1	1 3/64	1 5/32	13/16	13/16	.12
27S27	15,000	50/250/600	0	.01	RSV	1 1/8	1 7/16	15/16 Dia.		.12
27S28	15,000	50/250/600	3	.01	RSV	1 1/8	1 7/16	15/16 Dia.		.12
MI-T164	20,000CT	50/250/600	0	.01	BAH	1	5/8	1 7/32	3/4	.045
27S82	20,000CT	50/250/600	0	.01	AF-1	1 3/64	1 5/32	13/32	13/16	.12
MI-T92	25,000	500	1.5	.01	RAV-3	1 5/32	1 3/32	7/8 Dia.		.075
MI-T93	25,000	500	1.5	.01	RSV-2	1 5/32	1 3/32	7/8 Dia.		.082
MI-T94	30,000	50	1	.01	BAH	1 5/32	5/8	1 9/32	19/32	.031
MI-T95	30,000	50	1	.01	RAV-3	1 5/32	1 3/32	7/8 Dia.		.075
MI-T96	30,000	50	1	.01	RSV-2	1 5/32	1 3/32	7/8 Dia.		.082
27S84	50,000CT	150/600**	.5	.01	AF-1	1 3/64	1 5/32	13/16	13/16	.12
MI-T97	100,000	60	.25	.01	BAH	1 1/16	5/8	1 9/32	19/32	.031
MI-T98	100,000	60	.25	.01	RAV-3	1 5/32	1 3/32	7/8 Dia.		.075
MI-T99	100,000	60	.25	.01	RSV-2	1 5/32	1 3/32	7/8 Dia.		.082
27S83	15,000CT	150/600**	0	.015	AF-1	1 3/64	1 5/32	13/16	13/16	.12
27S19	10,000-20,000	200-500	3* 1.5*	.02	TSM	1-STUD	29/32	1 1/2	11/16	.012
MI-T118	15,000	50/250/600	0	.02	BAH	1 1/8	3/4	1 5/8	13/16	.069
MI-T119	15,000	50/250/600	0	.02	RAV-4	1 1/8	1 7/16	15/16 Dia.		.106
MI-T120	15,000	50/250/600	0	.02	RSV	1 1/8	1 7/16	15/16 Dia.		.116
27S73	15,000	250**/600**		.02	YY	1 3/16	2 1/4	1 1/4	1 1/16	.3
27S85	15,000CT	150/600**	.6	.025	AF-1	1 3/64	1 5/32	13/16	13/16	.12
27S07	15,000	150/600**	10	.031	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	2.25
27S117	15,000	150/600**	10	.031	YY	1 13/16 x 1 11/16	3.049	2.521	2.381	2.25
25S23	15,000	150/600**	10	.031	UTV	1 3/8 x 1 9/16	3 1/8	2 1/16	2 5/16	1.5
25S12	15,000**	50/125-150/200-250/333/500-600	0*	.031	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2	.5
25S13	15,000	50/125-150/200-250/333/500-600	8	.031	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2	.5
27S76	20,000**	250**/600**		.031	YY §	1 1/2	2 1/2	1 3/4	1 7/16	.75
25S28	20,000CT	150/600**	10	.031	UTV	1 3/8 x 1 9/16	3 1/8	2 1/16	2 5/16	1.5
27S20	30,000	50	1	.031	TSM	1-STUD	29/32	1/2	11/16	.012
27S126	10,000CT	150CT	0*	.063	ZZ	2	1 1/2	2 3/8	1 1/2	.2
27S25	30,000**	50/150-250/125-150/500-600	0	.08	RC-50	1 5/16 x 1 5/16	2 1/4	1 5/8	1 5/8	.5
27S37	10,000-25,000	200-500	3 1.5	.1	ZZ	LEADS	9/16	7/8	3/4	.04
27S45	10,000-12,500	500-600CT	2	.1	ZZ	LEADS	9/16	7/8	3/4	.04
25S69	15,000	50/250/600		.1	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.		.35
25S71	15,000	50/250/600	5	.1	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.		.35
25S70	15,000CT	150/600**		.1	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.		.35
25S72	15,000CT	150/600**	4	.1	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.		.35
27S38	30,000	50	1	.1	ZZ	LEADS	9/16	7/8	3/4	.04
27S39	100,000	60	.5	.1	ZZ	LEADS	9/16	7/8	3/4	.04
27S31	20,000CT	150/600	4	.12	RSV	1 1/8	1 7/16	15/16 Dia.		.12

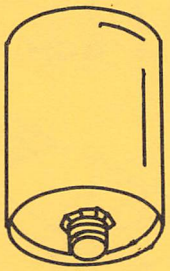
CONTINUED NEXT PAGE

* Unbalanced Primary Current
** Split Center Tap
§ 5 Interleaved Cases — 90 DB Shielding
✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



MAH



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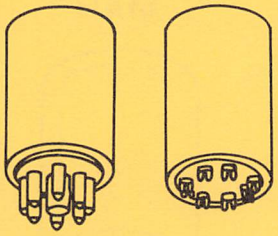
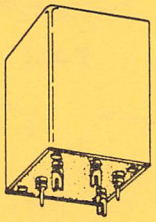
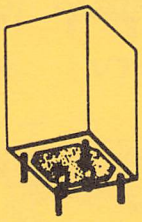


PLUG IN **RTV**



UTV-1



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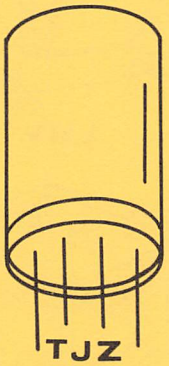


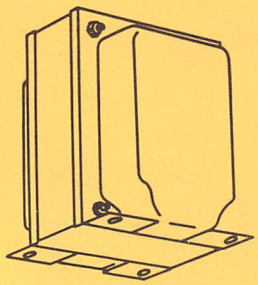
TJZ

RSV
RAV **RAV-3**
RSV-2 **RAV-4**

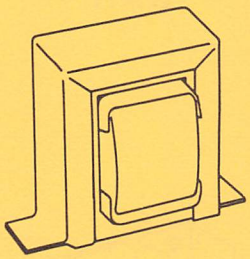
SEE PAGE 22, 23 & 24

TSM

SEE PAGE 34 FOR CASE SIZE AND COMPLETE TSM LISTING.



GGV



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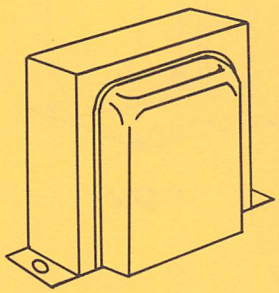

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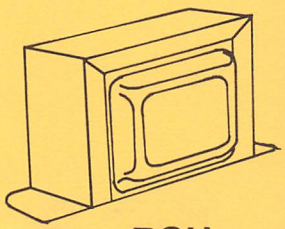

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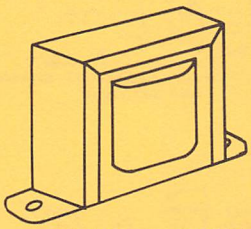
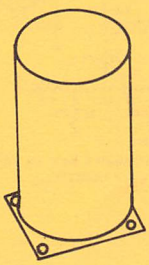


BAH BHH



RC-50

Tube to Line or Line Mixer

Part No.	Impedance Primary	Impedance Secondary	Primary MADC	Output Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
25S15	15,000**	50/125-150/200-250/333/500-600	0	.125	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8	2
25S17	15,000**	50/125-150/200-250/333/500-600	8	.160	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8	2
MI-T143	10,000-25,000	200-500	3 1.5	.2	MAH	—	19/32	7/8	43/64	.03
27S49	10,000-25,000	200-500	3 1.5	.2	ZZ	—	23/32	3/4	1	.05
27S74	15,000	250**/600**	5	.2	YY	1 1/2	2 3/4	2	1 5/8	1.1
27S24	15,000	50/125-150/150-250/500-600	8	.2	RC-50	1 5/16 x 1 5/16	2 1/4	1 5/8	1 5/8	.5
25S73	25,000**	500**	3	.2	TAJ	3/8 Hole	29/32	1/2	11/16	.35
MI-T144	30,000	50	1	.2	MAH	—	19/32	7/8	43/64	.03
27S50	30,000	50	1	.2	ZZ	—	23/32	3/4	1	.05
25S16	30,000CT	50/125-150/200-250/333/500-600	1	.2	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8	2
MI-T146	100,000	60	.5	.2	MAH	—	19/32	7/8	43/64	.03
27S51	100,000	60	.5	.2	ZZ	—	23/32	3/4	1	.05
27S17	15,000	62.5/150/250/600	10	.4	YY	1 1/2	2 1/2	1 1/2	1 1/2	.75
27S75	20,000**	250**/600**		.4	YY	1 1/2	2 1/2	1 3/4	1 7/16	.75
25S32	15,000	50/150/200/250/333/500	0	.5	UTV-1	1 1/8 x 1 1/8	2	1 1/2	1 1/2	1
25S34	15,000	50/150/200/250/333/500	0	.5	UTV-1	1 1/8 x 1 1/8	2	1 1/2	1 1/2	1
25S33	30,000CT	50/150/200/250/333/500	5	.5	UTV-1	1 1/8 x 1 1/8	2	1 1/2	1 1/2	1
27S06	60,000CT	600CT**	20	.5	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	1
25S21	15,000	50/200/500	8	1	RC-50	1 5/16 x 1 5/16	2 1/4	1 5/8	1 5/8	.5
GEO-34	15,000**	500**	5	1	3	1 1/4	2 1/4	1 25/64	1 1/16	.4
27S08	20,000**	150/600**	10	1	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	3
27S118	20,000	150/600**		1	YY	2 x 1 7/8	3.492	2.861	2.711	3
25S24	20,000CT	150/600**	0	1	UTV	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	3
27S05	24,000CT	600**	20	1	AJ	1 5/16 x 1 3/16	2 3/8	1 5/8	1 5/8	1
GEO-35	15,000**	500**	5	1.5	3	1 1/4	2 1/4	1 25/64	1 1/16	.4
25S22	30,000CT	50/200/500	0	1.5	RC-50	1 5/16 x 1 5/16	2 1/4	1 5/8	1 5/8	.5
27S02	4800/7600	600CT*	40	2	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	1
24S80	10,000	50 and 2,000		2	BAH	2	1 3/8	2 3/8	1 3/8	.5
27S69	10,000	600**	10	2	YY	1 5/8	1 3/4	1 5/16	1 5/16	.4
27S04	15,000CT	600**	10	2	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	1
GEO-37	16,000**	17/50/67.5/125/200/233/333/500	25	2	4	1 x 13/16	2 3/8	1 1/2	1 5/16	.5
GEO-38	16,000**	17/50/67.5/125/200/233/333/500	20	2	4	1 x 13/16	2 3/8	1 1/2	1 5/16	.5
GEO-39	20,000**	1.3/5/7.5/15/24 30/45/60	5	2	4	1 x 13/16	2 3/8	1 1/2	1 5/16	.5
22S75	7,000	50	30	3	BAH	1 3/4	1 3/16	2 1/8	1 1/4	.25
22S92	20,000CT	125/200/500	10	3	RTV	1 3/8 x 1 3/8	2	1 5/8 Dia.		.5
22S59	15,000	500CT	10	4	BGH	2 3/8	1 5/8	2 7/8	1 5/8	.75
22S119	10,000	50 and 2,000		5	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.7
25S25	10,000CT	8/16/600**	60	5	UTV	1 7/8 x 2	4 1/4	2 5/8	3 1/16	4
24S114	18,000CT	50/250/600	20	5	BAH	2 3/8	1 5/8	2 13/16	1 1/2	.6
27S55	20,000**	62.5/150/250CT/600 CT	20	5	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	2
22S91	20,000CT	125/200/500	25	8	BAH	2 13/16	2	3 1/8	2	1
22S90	20,000CT	125/200/500	25	8	FGV	2 3/8	2 3/8	2 7/8	1 7/8	1
22S77	2,500 to 7,000	500	60	10	BHV	2 13/16	2 11/16	3 1/8	2 1/4	1.5
24S27	5,000/10,000/20,000 CT	50/125/333/500	15	10	BHH	2 13/16	2	3 1/8	1 3/4	1
24S25	8,000 to 14,000 CT	500	55	10	BHV	2 13/16	2 3/4	3 1/8	2 1/4	1.5
25S18	5,000/9,400CT	50/125-150/200-250/333/500-600		15	UTV	2 x 2 3/4	3 1/2	2 13/16	3 9/16	5
22S02	8,000CT	125/250/500	40	15	GGV	2 x 2 5/8	3 1/8	2 5/8	3 3/8	3.8
27S57	8,000**	125/250/600	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5.1
27S59■	8,000**	125/250/600	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5.1
22S116	2,500/4,000/5,000 6,000/7,000	500	60	20	BHV	3 1/8	3 1/8	3 5/8	2 1/4	2.4
22S05	5,000CT	125/250/500	80	20	GGV	2 x 2 7/8	3 1/8	2 5/8	3 5/8	4.3
27S09	7,500§§	150/600**	60	20	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	6
27S119	5,000CT§§	125/250/500	80	20	YY	2 5/8 x 2 3/8	4.305	3.667	3.292	6
27S125	9,000CT	500	90	20	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2
22S76	3,000 to 14,000CT	500	60	25	BHH	3 5/8	2 1/2	4	2 5/8	2.5
27S63■	1,000**	125/250/500	100	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7.5
27S68■	4,000**	125/250/500	200	65	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	11.2

** Split Center Tap ■ Has Ultra-Linear Screen Taps §§ Has Extra 15% Feedback Winding

27 SERIES
GEO SERIES

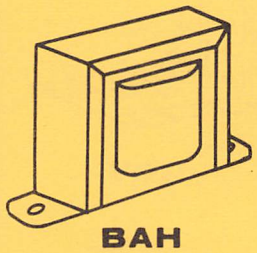
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Output

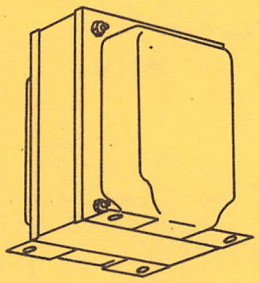
"Twin Coupled" Output Transformer

- USES CONVENTIONAL POWER TRANSFORMER. NO SPECIAL TAPS OR VOLTAGES NEEDED.
- LOWER PRICED OUTPUT TRANSFORMER.
- NO DISTORTED POWER PEAKS.
- NO OVERLOAD DISTORTION.
- PUSH-PULL PHASE INVERTER.
- PUSH-PULL DRIVER STAGE.
- PUSH-PULL FEED BACK REDUCES BALANCING PROBLEMS.
- MORE STABLE OPERATION.
- CIRCUIT READILY ADAPTABLE TO PUSH-PULL INPUT.
- LESS THAN 1 1/2% 2nd HORMONIC DISTORTION AT 10 WATTS CONTINUOUS TONE.
- EXCELLENT FREQUENCY RESPONSE ± 2 DB 20-20K.

Part No.	Impedance In Ohms	MADC	Watts	Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
22S21	Pri. 4,000 Ohms CT Sec. 8/16/32	75	7.5	BAH	3 1/8	2 1/4	3 3/4	2	2.25
24S117	Pri. 2,000CT Sec. 8/16/32	140	15	GGV	2 x 2 1/4	3 3/16	2 5/8	3 1/4	3.3

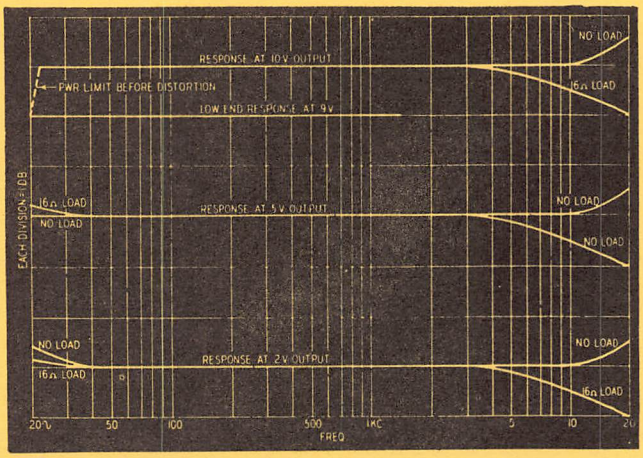


BAH



GGV

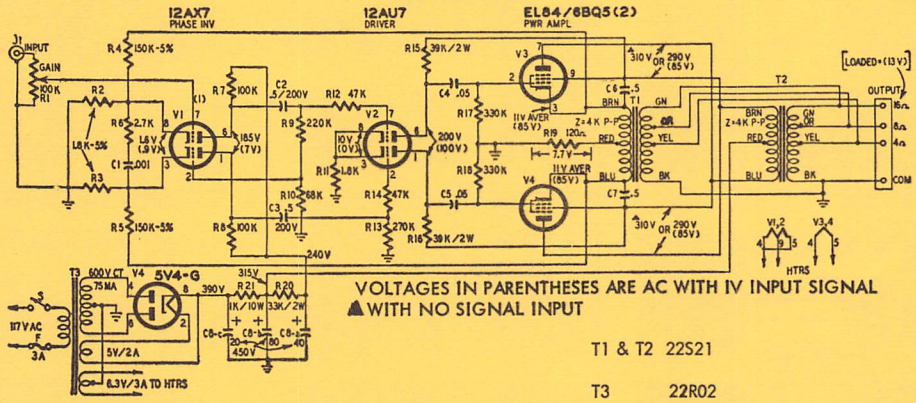
FREQUENCY RESPONSE FOR 22S21 "TWIN COUPLED" AMPLIFIER



Frequency response at different levels: measured with continuous tone. Taken with R6-C1 connected. Operation into dynamic speaker or combination with dynamic tweeter comes out nearer to flat than either high-end curve. For electrostatic tweeter (without internal compensation of any kind) and R6-C1 removed, response is about ± 2 db at 20,000 cycles, according to tweeter referred capacitance.

"Twin Coupled" Amplifier

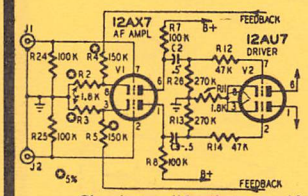
15 Watts



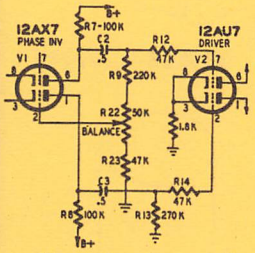
VOLTAGES IN PARENTHESES ARE AC WITH IV INPUT SIGNAL
▲WITH NO SIGNAL INPUT

T1 & T2 22S21

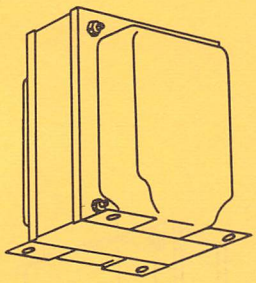
T3 22R02



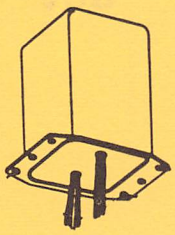
Circuit modification provides push-pull input.



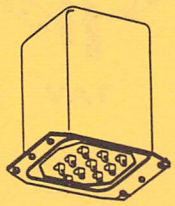
Circuit shows how to add a balance control.



GGV



TAV



TTV

UTV

High Fidelity Output Transformers

Part No.	Impedance Primary	Impedance Secondary	Primary MADC Each Side CT	Output Watts	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
22S106	1,500CT	8/16	200	50	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6.5
25S29	2,500/3,000*	8/16/600* 4/150	130	40	UTV	2 11/16 x 3 5/16	5 9/16	3 11/16	4 5/16	9.5
22S107	2,500CT	8/16	150	50	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6.5
22S41	3,000CT	8/16	175	50	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6.5
27S121	3,000/5,000*	8/16/600* 4/150	100	50	YY	2 5/8 x 2 3/8	4.305	3.667	3.292	6
27S11	3,000/5,000*	8/16/600* 4/150	100	50	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	6
25S27	3,000/5,000*	8/16/600* 4/150	100	50	UTV	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	6
25S19	3,000/5,000CT	1.2/2.5/5/7.5/ 10/15/20/30		18	UTV	2 x 2 3/4	3 1/2	2 13/16	3 9/16	5
22S10	3,300CT	4/8/16 WITH SCREEN TAPS	130	50	GGV	3 x 3 3/8	4 5/8	3 15/16	4 1/2	8
25S51	3,300CT	4/8/16/70 V. WITH SCREEN TAPS	90	50	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11
22S12	4,000CT	4/8/16 WITH SCREEN TAPS	200	65	GGV	2 3/4 x 3 1/2	4 1/4	3 5/8	4 5/8	9.75
25S80	4,000CT	4/8/16 WITH SCREEN TAPS	100	65	TTV	2 1/2 x 4 3/4	5 5/16	5 1/4	4 1/2	10
27S67	4,000 *	4/8/16 WITH SCREEN TAPS	200	65	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	11.2
27S68	4,000 *	125/250/500 WITH SCREEN TAPS	200	65	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	11.2
22S13	4,000CT	4/8/16 WITH SCREEN TAPS	210	70	GGV	3 x 3 7/8	4 5/8	3 15/16	5	12.5
25S76	4,300 *	8/16 # WITH SCREEN TAPS		65	TAV	2 1/2 x 4 3/4	5 9/16	4 9/16	5 1/4	12.5
22S11	4,500CT	4/8/16	140	50	GGV	2 3/4 x 3 1/2	4 1/4	3 5/8	4 5/8	8.25
27S66	4,500 *	4/8/16	180	55	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	11.1
22S14	4,500CT	4/8/16 WITH SCREEN TAPS	120	100	GGV	3 1/2 x 4 1/8	5 5/16	4 9/16	5 1/8	14.7
22S04	5,000CT	4/8/16	80	20	GGV	2 x 2 7/8	3 1/8	2 5/8	3 5/8	4.3
22S05	5,000CT	125/250/500	80	20	GGV	2 x 2 7/8	3 1/8	2 5/8	3 5/8	4.3
22S63	5,000CT	8/16	150	50	GGV	2 3/4 x 3 1/16	4 5/16	3 1/2	4 1/4	6
27S60	5,000 *	4/8/16	80	20	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5
25S50	5,000CT	4/8/16/70 V. WITH SCREEN TAPS	90	25	RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
25S75	5,000CT #	8/16/70 V. WITH SCREEN TAPS		100	TAV	5 3/8 x 3 1/2	6 1/16	5 7/8	5 5/16	21
22S39	6,600CT	4/8/16 WITH SCREEN TAPS	100	20	TAV	2 3/4 x 3 7/8	4 1/4	3 9/16	4 7/16	4
25S20	6,600CT	4/8/16 WITH SCREEN TAPS	80	20	UTV	2 x 2 3/4	3 1/2	2 13/16	3 9/16	5
22S07	6,600CT	4/8/16 WITH SCREEN TAPS	80	25	GGV	2 1/4 x 3 1/8	3 1/2	3	4 1/4	5.7
27S64	6,600 *	4/8/16 WITH SCREEN TAPS	80	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7
27S65	6,600 *	4/8/16 WITH SCREEN TAPS	80	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7
22S09	6,600CT	4/8/16 WITH SCREEN TAPS	80	30	GGV	2 1/4 x 2 5/8	3 1/2	3	3 3/4	5
22S67	6,600CT	8/16	125	50	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6
22S42	7,400	4/8/16 WITH SCREEN TAPS	100	40	GGV	2 1/2 x 2 7/8	3 7/8	3 1/4	3 7/8	6
22S43	7,400CT	4/8/16 WITH SCREEN TAPS	100	40	TAV	2 3/4 x 3 7/8	4 1/4	4 7/16	3 5/8	7.5
25S26	7,500CT	8/20	120	20	UTV	2 1/8 x 2 3/8	4 7/8	3 9/16	3 1/16	5.7
22S65	7,600CT	4/8/16 WITH SCREEN TAPS	100	25	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6
22S01	8,000CT	4/8/16	40	15	GGV	2 x 2 5/8	3 1/8	2 5/8	3 3/8	3.8
22S02	8,000CT	125/250/500	40	15	GGV	2 x 2 5/8	3 1/8	2 5/8	3 3/8	3.8
22S03	8,000CT	4/8/16 WITH SCREEN TAPS	50	15	GGV	2 x 2 5/8	3 1/8	2 5/8	3 3/8	3.8
27S56	8,000 *	4/8/16	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5.1
27S57	8,000 *	125/250/600	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5.1
27S58	8,000 *	4/8/16 WITH SCREEN TAPS	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5.1
27S59	8,000 *	125/250/600 WITH SCREEN TAPS	50	15	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5.1

CONTINUED NEXT PAGE

* Split Center Tap.

\# Has Cathode Feedback Winding.

27 SERIES FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Output

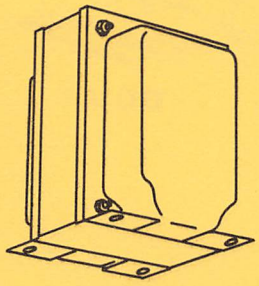
High Fidelity Output Transformers Continued

Part No.	Impedance Primary	Impedance Secondary	Primary MADC Each Side CT	Output Watts	Mtg. Type ✪	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
22S06	8,000CT	4/8/16 WITH SCREEN TAPS	100	25	GGV	2 1/4 x 3 1/8	3 1/2	4	4 1/4	6
27S61	8,000*	4/8/16* WITH SCREEN TAPS	100	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7.5
22S69	9,000CT	8/16	100	50	GGV	2 3/4 x 3 1/16	4 5/16	3 9/16	4 1/4	6
22S49	9,500CT	4/8/16 WITH SCREEN TAPS	100	15	TAV	2 3/4 x 3 7/8	4 1/4	3 9/16	4 7/16	4
25S25	10,000*	8/16/600* 4/150	80	5	UTV	1 7/8 x 2	4 1/4	2 5/8	3 1/16	4
25S30	10,000CT	8/16/600* 4/150	80	5	UTV	2 1/8 x 2 3/8	4 7/8	3 1/16	3 9/16	6
27S10	10,000*	8/16/600*	50	5	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	4
25S31	10,000CT	4/8/16 WITH SCREEN TAPS	130	20	UTV	2 1/8 x 2 3/8	4 7/8	3 1/16	3 9/16	7
22S08	10,000CT	4/8/16 WITH SCREEN TAPS	80	25	GGV	2 1/4 x 3 1/8	3 1/2	3	4 1/4	6
27S62	10,000*	4/8/16 WITH SCREEN TAPS	100	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7.1
27S63	10,000*	125/250/500 WITH SCREEN TAPS	100	25	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7.1
27S08	20,000*	150/600*	20	1	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	3
27S54	20,000*	4/8/16	20	5	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	2
27S55	20,000*	62.5/150 250 CT/600 CT	20	5	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	2

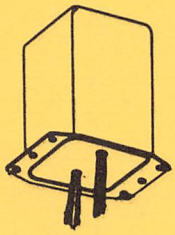
* Split Center Tap

✪ 27 SERIES

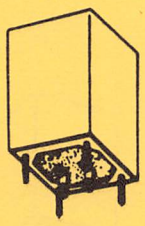
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



GGV



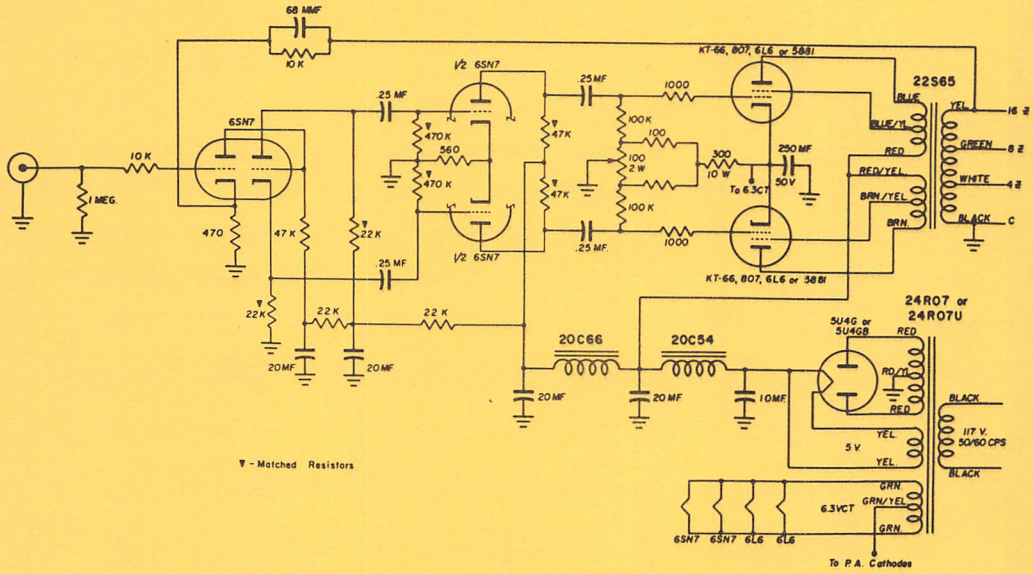
TAV



UTV

High Fidelity Output Circuit

The Amplifier Circuit shown below is a Williamson type using an ultra-linear output transformer. The addition of this ultra-linear feature into the Williamson type amplifier not only increases the power output of the unit but also reduces the percentage of distortion to a level unobtainable by previous methods.



Stereo Power Supply

MAKE THE FOLLOWING PART CHANGES FOR SINGLE STEREO POWER SUPPLY.

USE 22R35 IN PLACE OF 24R07 or 24R07U
USE 20C48 IN PLACE OF 20C66
USE 20C69 IN PLACE OF 20C54
USE 5V3 IN PLACE OF 5U4 or 5U4GB

25 Volt Line to Voice Coil

The 70.7 Volt and the 25 Volt sound distribution systems have become the most widely accepted distribution systems in use today. The 70.7 and the 25 Volt Line to Voice Coil Transformers have been designed to provide systems that combine simplicity and versatility with excellent sound reproduction.

There are many advantages in using a 70.7 or 25 Volt System for multi-speaker installations, one of the main advantages being simplicity itself. It is only necessary to know the full power output of the amplifier and the full power desired at each speaker to design the complete speaker system. To choose the correct transformers match the power to be delivered to each speaker with the power rating of a 70.7 or 25 Volt Line Transformer. Then connect the primaries of the transformers to the 70.7 or 25 Volt tap on the amplifier. When the sum of the power rating shown on each transformer is equal to the full power output rating of the amplifier, and the speakers are connected to the appropriate secondary tap, the system is perfectly matched.

Most newer amplifiers have a designated 70.7 and/or 25 volt outlet, but almost any amplifier has an impedance tap which may be used as a 70.7 or 25 volt output.

The following table gives these impedance taps:

Full Power Output of Amplifier	Impedance tap for 70.7 Volt Line	Impedance tap for 25 Volt Line
5	1000 Ohms	125 Ohms
10	500 Ohms	62.5 Ohms
20	250 Ohms	31.2 Ohms
25	200 Ohms	25 Ohms
40	125 Ohms	15.6 Ohms
50	100 Ohms	12.5 Ohms
100	50 Ohms	6.25 Ohms

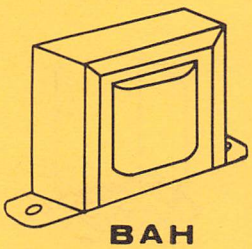
For Power ratings not shown use the following formulae:

$\frac{5000}{W}$ Impedance Tap for 70.7 Volt Line

$\frac{625}{W}$ Impedance Tap for 25 Volt Line

W Full Power Output of Amplifier

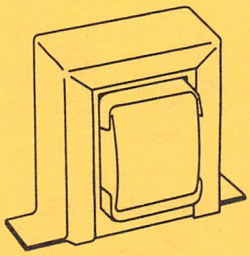
Another big advantage of these systems is its versatility. Speakers may be added, removed or their power level changed by simply moving a single connection on the transformers. For maximum flexibility use 24S70 (Page 142) which is complete with integrated tap switch to give instantaneous speaker control.



BAH

BHH

BHH SAME AS BAH WITH LUG.



BAV

BHV

BHV SAME AS BAV WITH LUG.

Part No.	Power Steps In Watts	Impedance In Ohms Primary	Impedance In Ohms Secondary	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24S126	2/1/.5	312/625/1,250	4/8	BHH	1 3/4	1 1/4	2 1/8	1 3/8	.3
24S109	2/1/.5	312/625/1,250	4/8	BAH	2	1 3/8	2 3/8	1 3/8	.45
24S24	5/2.5/1.25/.625/.312	125/250/500/1,000/2,000	4/8	BHV	1 3/4	1 3/4	2	1 1/4	.4
24S110	5/2.5/1.25/.625	125/250/500/1,000	4/8/16	BAH	2 3/8	1 5/8	2 13/16	1 5/8	.8
24S21	8/4/2/1/.5	78/156/312.5/625/1,250	4/8/16	BHV	2	2	2 5/8	1 3/4	1
24S23	10/5/2.5/1.25 AUTOFORMER	62.5/125/250/500	4/8	BHV	2 3/8	2 3/8	2 7/8	1 3/4	1.4
24S111	10/5/2.5/1.25 §	62.5/125/250/500	4/8/16	BAV	3 1/8	3 1/16	3 5/8	2	1.6
24S22	16/8/4/2/1/.5	39/78/156/312.5/625/1,250	4/8/16	BHV	2 13/16	2 3/4	3 1/4	2 1/8	1.75

Matching Lines

25 VOLT LINE TO 70.7 VOLT LINE OR 70.7 VOLT LINE TO 25 VOLT LINE

Part No.	Application	Impedance In Ohms	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24S112	25 V. Line to 70.7 V. Line or 70 V. Line to 25 V. Line 10 Watts	62.5CT to 500CT § or 500CT to 62.5CT §	BAV	2 3/8	2 5/16	2 7/8	1 3/4	1
24S113	25 V. Line to 70.7 V. Line or 70 V. Line to 25 V. Line 30 Watts	20.8CT to 166CT § or 166CT to 20.8CT §	BAV	3 1/8	3 1/16	3 5/8	2 1/4	2.3

§ Frequency Response ± 3DB - 20-20,000 Cycles

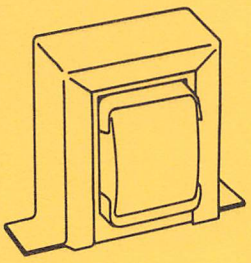
70.7 VOLT LINE TO VOICE COIL LISTED ON PAGE 142

Output

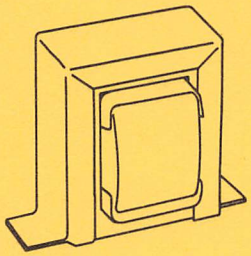
TECHNICAL INFORMATION GIVEN ON THE PRECEDING PAGE.

70.7 Volt Line to Voice Coil Continued

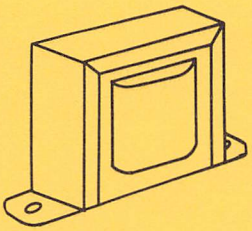
Part No.	Power Steps In Watts	Impedance In Ohms Primary	Impedance In Ohms Secondary	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24S01	2/1/.5/.25/.125	2,500/5,000/10,000 20,000/40,000	4/8	BHV	1 3/4	1 5/8	2	1 1/4	.5
24S100	5/2.5/1.25/.62/.31 AUTOFORMER	1,000/2,000/4,000 8,000/16,000	4/8	BAV	1 3/4	1 5/8	2	1 3/8	.5
24S74	5/2.5/1.25/.62/.31	1,000/2,000/4,000/ 8,000/16,000	4/8	BHH	2	1 3/8	2 3/8	1 1/4	.5
24S125	5/4/3/2/1	1,000/1,250/1,667 2,500/5,000	8/16	BHH	2	1 3/8	2 3/8	1 3/8	.5
24S71	8/4/2/1/.5	625/1,250/2,500/ 5,000/10,000	4/8/16	BHV	2	2	2 1/2	1 5/8	1
24S73	10/5/2.5/1.25 AUTOFORMER	500/1,000/2,000/ 4,000	4/8	BHV	2 3/8	2 3/8	2 7/8	2	1.5
24S101	10/5/2.5/1.25	500/1,000/2,000/ 4,000	4/8/16	BAV	2	2	2 3/8	1 1/2	.6
24S124	10/9/8/7/6	500/555/625/715/ 833	8/16	BHV	2	2	2 3/8	1 5/8	.7
24S102	10/5/2.5/1.25 AUTOFORMER	500/1,000/2,000/ 4,000	4/8/16	BAV	2	2	2 3/8	1 1/2	.6
24S103	10/5/2.5/1.25 § AUTOFORMER	500/1,000/2,000/ 4,000	4/8/16	BAV	2 13/16	2 3/4	3 1/8	2 1/8	1.8
24S104	10/5/2.5/1.25 § WEATHER PROOF AUTOFORMER	500/1,000/2,000/ 4,000	4/8/16	TTV	1 3/4 x 2 11/16	3 5/16	3	2 1/2	2.25
24S123	15/14/13/12/11	333/357/384/ 417/455	8/16	BHV	2 3/8	2 5/16	2 7/8	1 3/4	1.2
24S72	16/8/4/2/1/.5	312.5/625/1,250/ 2,500/5,000/10,000	4/8/16	BHV	2 13/16	2 5/8	3 1/8	2 1/4	1.75
24S70	16/8/4/2/1/.5 WITH WATTAGE SELECTION SWITCH	312.5/625/1,250/ 2,500/5,000/10,000	4/8/16	TAV Special	3 1/8 x 2	3 9/16	3 1/2	2 7/8	2.5
24S107	20/10/5/2.5 AUTOFORMER	250/500/1,000/ 2,000	4/8/16	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1
24S105	20/10/5/2.5	250/500/1,000/ 2,000	4/8/16	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1
24S108	20/10/5/2.5 § AUTOFORMER	250/500/1,000/ 2,000	4/8/16	GGV	2 x 2 5/8	3 1/8	2 5/8	3 3/8	4
24S106	20/10/5/2.5 § WEATHER PROOF AUTOFORMER	250/500/1,000/ 2,000	4/8/16	TTV	2 3/4 x 3 7/8	4 5/16	3 11/16	4 7/16	6
24S02	24/12/6/3/1.5	208/416/832/ 1,664/3,330	4/8/16	BHV	3 1/8	3 1/16	3 5/8	2	2.5



BHV (Lugs)



BAV (Leads)



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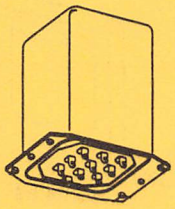

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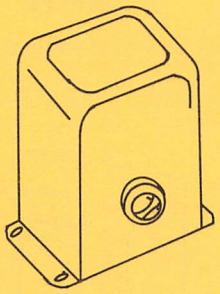

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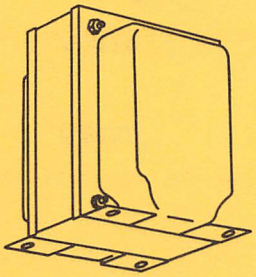
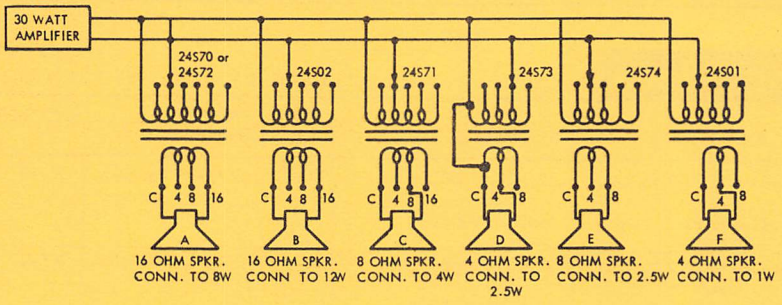
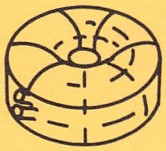


GGV

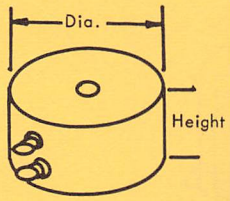
A typical installation of the 70.7 Volt Line distribution system.



§ Frequency Response ± 3 DB — 20 to 20,000 Cycles.



PLASTIC COATED WITH LEADS



MOLDED WITH TERMINALS

TRANSFORMERS

Inductors

These high Q Toroid Inductors have the highest temperature and inductive stability available to the industry. Each coil has a minimum inductance tolerance of plus or minus 2 percent. Available in either plastic coated units with leads (TOR 800 and TOR 900 series) or in epoxy molded MIL-T-27A encapsulation (TOR 700 and TOR 7100 series).

Toroid Inductors

PLASTIC-COATED
Diameter 3/4
Height 3/8

MOLDED
Diameter 3/4
Height 3/8
Hole Dia. .116

Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-700	TOR-800	1	2.8	150
TOR-701	TOR-801	2	4.1	108
TOR-702	TOR-802	3	5.1	87
TOR-703	TOR-803	4	6.0	76
TOR-704	TOR-804	5	6.8	68
TOR-705	TOR-805	7	8.2	57
TOR-706	TOR-806	10	10	48
TOR-707	TOR-807	15	12.5	39
TOR-708	TOR-808	20	14.5	34
TOR-709	TOR-809	25	16.5	30
TOR-710	TOR-810	30	18	27.6
TOR-711	TOR-811	40	27	24
TOR-712	TOR-812	50	30	22
TOR-713	TOR-813	60	40	19.5
TOR-714	TOR-814	70	43	18
TOR-715	TOR-815	100	66	15
TOR-716	TOR-816	150	100	12.5
TOR-717	TOR-817	200	115	11
TOR-718	TOR-818	250	167	9.6
TOR-719	TOR-819	300	180	8.8
TOR-720	TOR-820	400	265	7.6
TOR-721	TOR-821	500	295	7
TOR-722	TOR-822	700	440	5.8
TOR-723	TOR-823	1,000	650	4.8

PLASTIC-COATED
Diameter 1
Height 3/8

MOLDED
Diameter 1 1/16
Height 1/2
Hole Dia. .144

Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-748	TOR-848	1	.40	270
TOR-749	TOR-849	2	.58	192
TOR-750	TOR-850	3	.73	157
TOR-751	TOR-851	4	.85	135
TOR-752	TOR-852	5	1.20	121
TOR-753	TOR-853	7	1.42	102
TOR-754	TOR-854	8	2	95
TOR-755	TOR-855	10	2.20	86
TOR-756	TOR-856	15	3.40	70
TOR-757	TOR-857	20	5	60
TOR-758	TOR-858	25	5.8	54
TOR-759	TOR-859	30	7.9	50
TOR-760	TOR-860	40	11.4	43
TOR-761	TOR-861	50	12.8	38
TOR-762	TOR-862	70	19	32
TOR-763	TOR-863	80	29.5	29
TOR-764	TOR-864	100	30	27
TOR-765	TOR-865	150	46	22
TOR-766	TOR-866	200	52	19
TOR-767	TOR-867	250	73	17
TOR-768	TOR-868	300	80	16
TOR-769	TOR-869	400	115	14
TOR-770	TOR-870	500	126	12
TOR-771	TOR-871	600	178	11
TOR-772	TOR-872	700	193	10
TOR-773	TOR-873	800	300	9
TOR-774	TOR-874	1,000	297	8.6

PLASTIC-COATED
Diameter 1 1/4
Height 5/8

MOLDED
Diameter 1 5/16
Height 23/32
Hole Dia. .173

Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-724	TOR-824	1	.57	680
TOR-725	TOR-825	2	.82	480
TOR-726	TOR-826	3	.98	396
TOR-727	TOR-827	4	1.10	342
TOR-728	TOR-828	5	1.35	306
TOR-729	TOR-829	7	1.50	260
TOR-730	TOR-830	10	2	217
TOR-731	TOR-831	15	3	177
TOR-732	TOR-832	20	4.3	153
TOR-733	TOR-833	25	4.8	137
TOR-734	TOR-834	30	6.9	125
TOR-735	TOR-835	40	7.2	108
TOR-736	TOR-836	50	8	97
TOR-737	TOR-837	60	15.5	88
TOR-738	TOR-838	70	16.8	82
TOR-739	TOR-839	100	26.0	68
TOR-740	TOR-840	150	38.5	56
TOR-741	TOR-841	200	44.5	48
TOR-742	TOR-842	250	64	43
TOR-743	TOR-843	300	72	40
TOR-744	TOR-844	400	103	34
TOR-745	TOR-845	500	118	31
TOR-746	TOR-846	700	173	26
TOR-747	TOR-847	1,000	245	22

PLASTIC-COATED
Diameter 1 1/4
Height 5/8

MOLDED
Diameter 1 5/16
Height 23/32
Hole Dia. .173

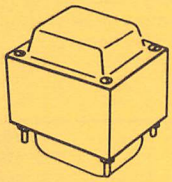
Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-775	TOR-875	1	.40	520
TOR-776	TOR-876	2	.56	368
TOR-777	TOR-877	3	.70	300
TOR-778	TOR-878	4	.82	260
TOR-779	TOR-879	5	.92	233
TOR-780	TOR-880	7	1.05	195
TOR-781	TOR-881	10	1.30	165
TOR-782	TOR-882	15	1.60	134
TOR-783	TOR-883	20	1.85	116
TOR-784	TOR-884	30	2.85	95
TOR-785	TOR-885	40	4.2	82
TOR-786	TOR-886	50	4.6	74
TOR-787	TOR-887	70	7.0	62
TOR-788	TOR-888	100	8.0	52
TOR-789	TOR-889	200	25	37
TOR-790	TOR-890	250	28	33
TOR-791	TOR-891	300	38.2	30
TOR-792	TOR-892	400	44.0	26
TOR-793	TOR-893	500	63.5	23
TOR-794	TOR-894	600	71	21
TOR-795	TOR-895	700	80	19.5
TOR-796	TOR-896	1,000	113	16.5
TOR-797	TOR-897	1,500	175	13.5
TOR-798	TOR-898	2,000	243	11.6
TOR-799	TOR-899	3,000	370	9.5
TOR-7100	TOR-900	4,000	435	8.2
TOR-7101	TOR-901	5,000	645	7.4
TOR-7102	TOR-902	7,000	780	6.2
TOR-7103	TOR-903	10,000	1,190	5.2

PLASTIC-COATED
Diameter 1 15/16
Height 7/8

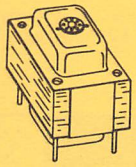
MOLDED
Diameter 2
Height 1
Hole Dia. .173

Molded Part No.	Plastic Coated Part No.	Ind. in MH	Res. in Ohms	MADC For 5% Ind. Drop
TOR-7104	TOR-904	10	.92	262
TOR-7105	TOR-905	20	1.30	185
TOR-7106	TOR-906	30	1.65	150
TOR-7107	TOR-907	40	1.90	130
TOR-7108	TOR-908	50	3.5	116
TOR-7109	TOR-909	60	4.0	106
TOR-7110	TOR-910	80	4.60	92
TOR-7111	TOR-911	100	5.2	82
TOR-7112	TOR-912	120	5.5	75
TOR-7113	TOR-913	150	6.2	67
TOR-7114	TOR-914	200	7.50	58
TOR-7115	TOR-915	250	10.3	52
TOR-7116	TOR-916	300	12	47
TOR-7117	TOR-917	400	16.5	41
TOR-7118	TOR-918	500	23.6	37
TOR-7119	TOR-919	700	30.0	31
TOR-7120	TOR-920	1,000	45	26
TOR-7121	TOR-921	2,000	100	18.4
TOR-7122	TOR-922	3,000	151	15
TOR-7123	TOR-923	4,000	175	13
TOR-7124	TOR-924	5,000	250	11.6
TOR-7125	TOR-925	7,000	380	9.8
TOR-7126	TOR-926	10,000	500	8.2
TOR-7127	TOR-927	20,000	1,000	5.8
TOR-7128	TOR-928	30,000	1,500	4.7
TOR-7129	TOR-929	40,000	1,850	4.1

Mounting



AGF



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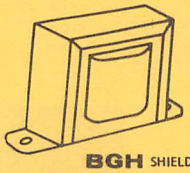

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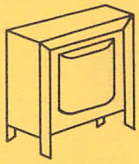
BAH BHH



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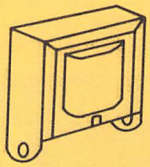

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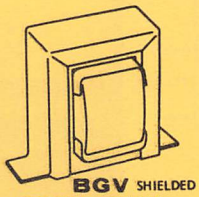

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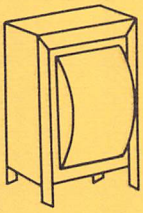

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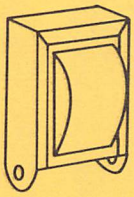

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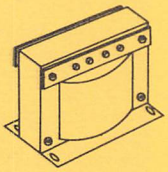

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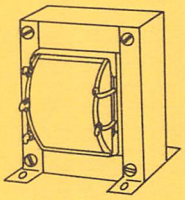
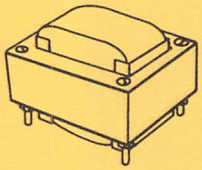


CHV LHV



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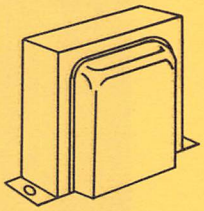

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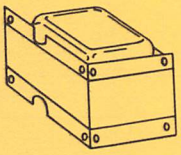

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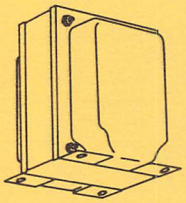

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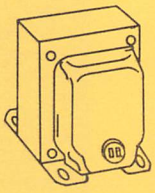

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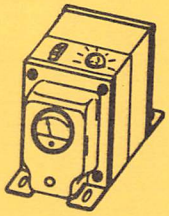
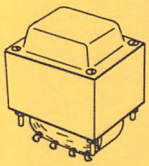


GMV WITH METER



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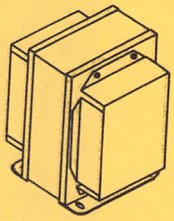

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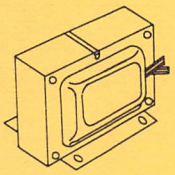

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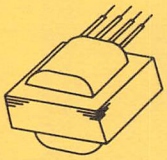
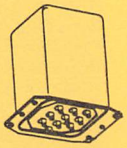


MAH



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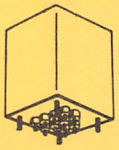
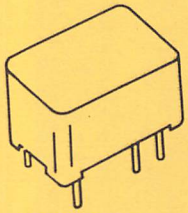


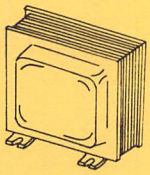
MIL-T-27A

RAV



MOLDED

PLUG - IN



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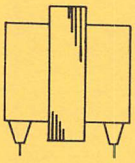
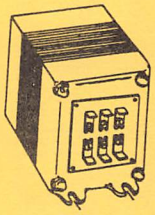


PCT

RC-25



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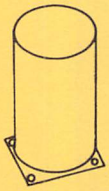

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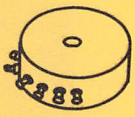
RTV



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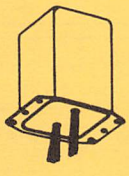
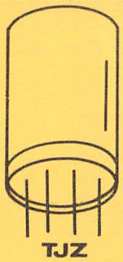


TAV

TAV-1

TTV-1

TAJ



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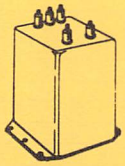

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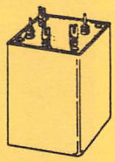

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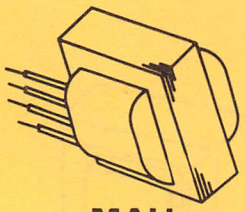

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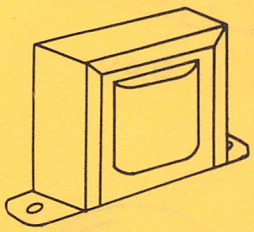

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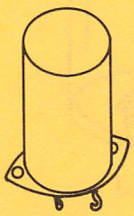

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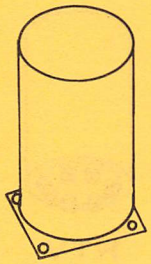

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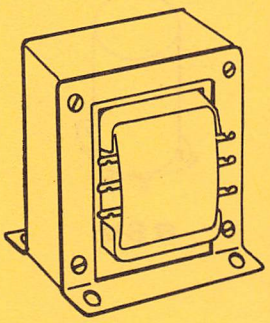


CHV

PCT

SEE PAGE 10 FOR SIZE AND COMPLETE PCT LISTING

RAV RAV-3 RSV-2

SEE PAGE 22, 23 & 24

FOR MTG. TYPES NOT SHOWN HERE SEE PAGE 144

Choke

IN ORDER OF MADC

Part No.	Inductance Henrys	Inductance MADC	DC Res. In Ohms	Test Volts RMS	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
TR-347	150 MH	0	14	500	PCT	–	11/16	3/4	9/16	.05
MI-T19	12	0	830	45	MAH	–	3/8	3/8	11/32	.005
MI-T20	12	0	830	45	RSV-1	1 – Stud	9/16	7/16 Dia.		.014
TR-150	12	0	1,880	90	MAH	–	1/4	3/8	5/16	.003
TR-151	20	0	2,850	90	MAH	–	1/4	3/8	5/16	.003
GEO-59	50 to 53#	0	750	500	3	1 1/4	2 1/4	1 25/64	1 1/16	5.5
GEO-67	100#	0	1,950	100	1	1 – Hole	1 3/8	1 5/16 Dia.		1.5
27C37	300	0	6,000	500	RC-25	1 1/8	1 7/16	15/16 Dia.		.15
25C01	300 50	0 3	6,000	100	RTV	11/16	1 3/16	7/8 Dia.		.06
GEO-66	300#	0	5,400	100	1	1 – Hole	1 3/8	15/16 Dia.		1.5
GEO-65	500	0	12,000	100	1	1 – Hole	1 3/8	15/16 Dia.		1.5
GEO-58	500#	0	6,000	500	4	1 x 13/16	2 3/8	1 1/2	1 5/16	8.25
GEO-62	500#	0	10,500	500	2 A	1	1 13/16	1 1/16	7/8	3.4
GEO-64	1,000#	0	12,000	500	1	1 – Hole	1 3/8	15/16 Dia.		1.5
GEO-57	1,000#	0	10,000	500	4	1 x 13/16	2 3/8	1 1/2	1 5/16	8.25
GEO-61	1,000#	0	13,000	500	2 A	1	1 13/16	1 1/16	7/8	3.4
GEO-56	1,050#	0	13,000	500	3	1 1/4	2 1/4	1 25/64	1 1/16	5.5
GEO-60	1,050#	0	11,500	500	2 A	1	1 13/16	1 1/16	7/8	3.4
GEO-63	1,090#	0	12,000	500	2	1	1 11/16	1 1/16	7/8	3.2
27C67	50	.75	4,000	500	AF-1	27/32	1 1/8	3/4	3/4	.125
MI-T39	20	1	2,200	100	MAH	–	3/8	3/8	3/8	.0055
MI-T40	20	1	2,200	100	RSV-1	1 – Stud	11/16	17/32 Dia.		.025
MI-T65	30	1	4,000	100	MAH	–	7/16	1/2	13/32	.095
TR-56	30	1	4,000	100	MAH	–	7/16	1/2	7/16	.03
MI-T66	30	1	4,000	100	RSV-1	1 – Stud	23/32	21/32 Dia.		.031
MI-T145	50	1	2,675	100	MAH	–	19/32	7/8	43/64	.03
27C66	50	1	2,675	100	Molded	–	23/32	3/4	1	.05
MI-T100	50	1	3,200	100	BAH	1 1/16	5/8	1 9/32	19/32	.031
MI-T101	50	1	3,200	100	RAV-3	1 5/32	1 3/32	7/8 Dia.		.075
MI-T102	50	1	3,200	100	RSV-2	1 5/32	1 3/32	7/8 Dia.		.082
MI-T82	50	1	4,500	100	MAH	–	7/16	3/4	5/8	.023
27C63	50	1	4,400	100	Molded	–	9/16	7/8	3/4	.04
MI-T83	50	1	4,500	100	RAV-3	1 5/32	29/32	7/8 Dia.		.059
MI-T84	50	1	4,500	100	RSV-2	1 5/32	29/32	7/8 Dia.		.063
27C82	.9	2	110	500	Molded	–	.465	.310	.410	.1
TR-147	1	2	130	100	Molded	–	.312	.426	.400	.1
27C80	1.25	2	180	500	Molded	–	.465	.310	.410	.1
MI-T227	1.25 .5	2 11	100	100	RAV	–	13/32	5/16 Dia.		.1oz
TR-148	3	2	330	100	Molded	–	.312	.426	.400	.1
MI-T140	3.5 1.5	2 5	160	100	MAH	–	7/16	3/4	5/8	.02
27C65	3.5 1.5	2 5	160	100	Molded	–	9/16	7/8	3/4	.04
MI-T208	3.5 1	2 5	560	100	RAV	–	13/132	5/16 Dia.		.1
27C81	3.5	2	1,040	100	Molded	–	.465	.310	.410	.1
TR-149	6	2	1,180	100	Molded	–	.312	.426	.400	.1
MI-T226	6 1.5	2 5	2,100	100	RAV	–	13/32	5/16 Dia.		1oz.
27C79	6	2	1,700	500	Molded	–	.465	.310	.400	.1
MI-T139	8 4	2 5	650	100	MAH	–	7/16	3/4	5/8	.02
27C64	8 4	2 5	650	100	Molded	–	9/16	7/8	3/4	.04
25C03	1.6 .8	3 10	25	100	RTV	11/16	1 3/16	7/8 Dia.		.06
20C111	1.6	3	165	500	BAH	1 3/8	3/4	1 5/8	13/16	.04
25C02	7 3.5	3 10	230	100	RTV	11/16	1 3/8	7/8 Dia.		.06
MI-T168	8 2	3 6	220	500	BAH	1	5/8	1 7/32	3/4	.045
27C68	8 2	3 6	220	500	AF-1	27/32	1 1/8	3/4	3/4	.125
MI-T130	50	3	5,000	100	BAH	1 1/8	3/4	1 5/8	13/16	.069
MI-T131	50	3	5,000	100	RAV	1 1/8	1 7/16	15/16 Dia.		.106
MI-T132	50	3	5,000	100	RSV	1 1/8	1 7/16	15/16 Dia.		.116
27S83	.3	4	44	500	Molded	–	.465	.310	.410	.1
MI-T228	.3 .15	4 20	25	100	RAV	–	13/32	5/16 Dia.		.1oz.
27C84	.1	5	15	500	Molded	–	.465	.310	.410	.1
20C63	135	5	6,500	2,500	TAV	2 3/8 x 1 1/2	2 7/8	2 1/8	2 3/4	1.7
20C58	.75	.5 to 10	30	2,500	BAH	2 3/8	1 5/8	2 7/8	1 1/4	.75

CONTINUED NEXT PAGE

Tapped Windings — refer to Geophysical pages in the Green Section of this catalog for complete specifications

Chokes

Choke IN ORDER OF MADC continued

Part No.	Inductance Henrys	Inductance MADC	DC Res. In Ohms	Test Volts RMS	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
25C10	250 62.5	5 10	7,500	500	TAJ	3/8 Hole	1 3/4	1 3/8 Dia.		.35
20C42	300	5	5,000	2,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20C50	350	5	5,500	2,500	BAH	2 13/16	2	3 1/4	2	1.5
26C40	1.5	10	95	2,500	BAH	1 3/4	1 1/4	2 1/8	1 1/8	.5
27C11	15	10	680	1,000	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	1.0
27C85	15	10	680	1,000	YY	1 x 1	1.955	1.546	1.546	1.0
20C112	40	10	1,200	3,000	CHV	1 1/4 x 1 3/16	2 1/4	1 7/8	1 1/4	.75
27C111	95	14	1,600	12,500	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	9
25C38	.8*	15	135	500	TTV-1	2	1 3/4	2 3/8	1 1/2	.5
20C102	2	15	70	1,500	BAH	1 3/4	1 3/16	2 3/16	1 1/4	.4
25C39	2.4*	15	280	500	TTV-1	2	1 3/4	2 3/8	1 1/2	.5
20C43	20	15	900	2,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20C51	35	15	1,850	2,500	BAH	2	1 3/8	2 3/8	1 1/4	.5
20C04	50	15	3,500	1,500	BAH	2	1 3/8	2 3/8	1 1/2	.5
25C63	250	15	5,000	1,750	RC	2 3/32 x 2 3/32	3 1/4	2 9/16	2 9/16	2.5
20C05	15	20	1,000	1,000	BAH	1 3/4	1 3/16	2 1/16	1 1/4	.21
27C12	15	20	680	1,000	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	1.0
27C86	15	20	680	1,000	YY	1 x 1	1.955	1.546	1.546	1.0
27C47	20 18 14.5 10	20 25 30 35	925	1,000	AH	1 1/4	1 3/4	1 5/16	1 5/16	.4
27C35	30	20	1,000	2,500	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16	1.25
27C112	10	30	350	1,500	YY	1 x 1	2 1/2	1 15/32	1 15/32	1.0
20C36	15	30	630	2,500	BAH	2 3/8	1 11/16	2 7/8	1 1/2	.75
20C44	30	35	700	2,500	BAH	2 13/16	2	3 1/4	1 3/4	1.0
20C113	1	40	170	500	BAH	2	1 3/8	2 3/8	1 1/4	.5
27C100	2	40	190	2,500	AH	1 1/4	1 3/4	1 5/16	1 5/16	.4
20C114	4	40	219	500	BAV	2 1/8	2	2 5/8	1 5/8	.75
27C70	4	40	375	1,500	AH-2	1 11/32	1 3/4	1 5/16	1 5/16	.35
20C35	8	40	250	1,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20C52	8	40	450	2,500	BAH	2	1 3/8	2 3/8	1 1/4	.5
27C113	8	40	400	1,780	YY	1 x 1	3	1 9/16	1 9/16	1.0
20C45	12	40	400	2,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20C46	15	40	400	2,500	BAH	2 13/16	2	3 1/4	1 3/4	1.0
27C13	15	40	475	2,500	FB	1 7/16 x 1 11/16	2 1/2	2 1/16	2 5/16	1.5
27C87	15	40	475	2,500	YY	1.562 x 1.375	2.68	2.241	2.101	1.5
25C25	15	40	475	2,500	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16	1.5
25C49	15	40	475	2,500	TTV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16	1.5
20C37	20	40	850	1,500	BAH	2 13/16	2	3 5/16	1 5/8	1
27C32	20	40	350	2,500	FB	1 7/16 x 1 11/16	2 1/2	2 1/16	2 5/16	1.5
27C114	20	40	350	2,500	YY**	1 7/16 x 1 11/16	2 1/2	2 1/16	2 5/16	1.5
20C116	3.5	50	200	1,500	BAH	2	1 3/8	2 3/8	1 1/4	.5
20C82	3.5	50	200	2,500	BHH	2 3/8	1 5/8	2 7/8	1 1/2	.75
26C42	4.5	50	200	2,500	BAH	2 3/8	1 5/8	2 7/8	1 5/8	.8
20C47	4.5	50	300	2,500	BAH	2	1 3/8	2 3/8	1 3/8	.5
27C118	5.5 4	50 75	360	1,500	YY	1 3/8	2 1/2	1 7/16	1 7/16	1.25
20C83	6	50	300	2,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20C84	7	50	550	2,500	BAH	2	1 3/8	2 3/8	1 3/8	.5
20C117	8.5	50	250	1,000	BHH	2 3/8	1 5/8	2 7/8	1 5/8	.8
20C81	8.5	50	400	2,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20C66	9	50	500	2,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
27C115	10	50	3,000	5,000	YY	3 5/8 x 2	3 1/8	4 1/8	3	3
27C33	12	50	385	2,500	EB	1 3/8 x 1 1/4	2 7/8	1 15/16	1 13/16	1.25
26C87	16	50	580	2,500	BAH	2 13/16	2	3 1/4	2 1/8	1.2
25C64	75	50	2,200	1,750	RC	2 3/32 x 2 3/32	3 1/4	2 9/16	2 9/16	2.5
27C26	2	55	160	2,500	AH	1 1/4	1 3/4	1 5/16	1 5/16	.35
27C105	2	55	160	2,500	YY	1.156	2.008	1.198	1.198	.25
20C59	7	55	200	2,500	BAH	2 3/8	1 5/8	2 7/8	1 5/8	.75
27C14	10	55	230	2,500	FB	1 7/16 x 1 11/16	2 1/2	2 1/16	2 5/16	1.75
27C88	10	55	230	2,500	YY	1.562 x 1.375	2.93	2.241	2.101	1.75

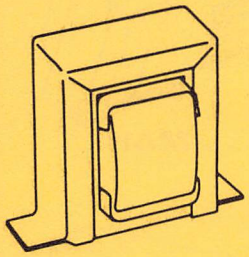
CONTINUED NEXT PAGE

** FB Case with Terminals on Top

* High Q Choke, minimum Q is 20 for 0 up to 15 MADC

27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



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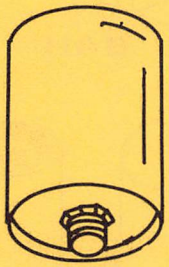

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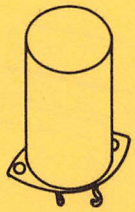

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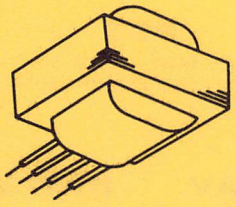

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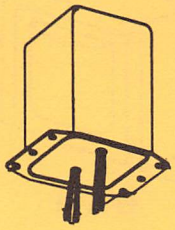

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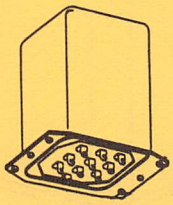

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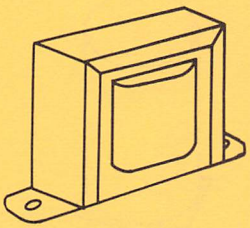

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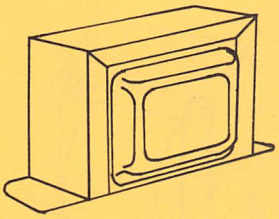

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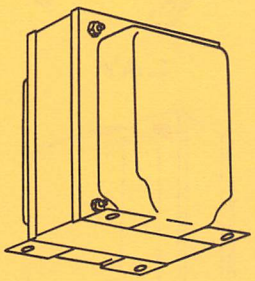
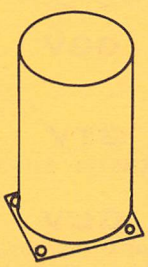


GGV



RC

Choke

IN ORDER OF MADC continued

Part No.	Inductance Henrys	Inductance MADC	DC Res. In Ohms	Test Volts RMS	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
25C26	10	55	230	2,500	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16	1.75
25C50	10	55	230	2,500	TTV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16	1.75
27C116	10	55	250	1,500	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16	1.5
27C15	15	55	420	2,500	FB	1 7/16 x 1 11/16	2 1/2	2 1/16	2 5/16	1.75
27C89	15	55	420	2,500	YY	1.562 x 1.375	2.930	2.241	2.101	2
25C27	15	55	420	2,500	TAV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16	2
25C51	15	55	420	2,500	TTV	1 1/2 x 2 3/8	2 7/8	2 1/4	2 11/16	2
20C85	13	65	500	2,500	BAH	2 13/16	2	3 1/4	1 3/4	1.2
27C117	2	70	100	1,500	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16	1
27C27	2	70	165	2,500	AH	1 1/4	1 3/4	1 5/16	1 5/16	.5
27C101	2	70	165	2,500	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.75
27C106	2	70	165	2,500	YY	1.312	2.037	1.361	1.361	.5
27C71	3	70	225	1,500	AJ-1	1 5/8	2 3/8	1 5/8	1 5/8	.75
26C84	9	70	270	2,500	BGH	2 13/16	2	3 1/4	2 1/8	1.5
27C48	13 11.5 9.5 7	70 85 105 125	215	2,500	GB	2 1/8 x 1 3/4	2 13/16	2 3/4	2 3/8	2.5
27C72	15	70	300	2,500	GB	2 1/8 x 1 3/4	2 13/16	2 3/4	2 3/8	2.5
26C82	3.2	75	120	2,500	BAH	2 3/8	1 5/8	2 7/8	1 5/8	.75
20C65	6	75	200	2,500	BAV	2 3/8	2 3/8	2 7/8	2	1
27C119	6	75	280	500	YY	2 1/8 x 1/2	2 1/8	2 7/16	1 11/16	1.2
20C120	10	75	250	2,000	BAH	2 13/16	2	3 1/16	1 3/4	.8
26C86	15	75	400	2,500	BAH	3 1/8	2 1/4	3 3/4	2 5/8	1.5
27C120	15	75	270	1,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	3
20C48	8	80	250	2,500	BAH	2 13/16	2	3 1/4	2 1/8	1.5
20C53	12	80	375	2,500	BAH	2 13/16	2	3 1/4	2 1/8	1.5
27C121	12	80	300	1,500	YY	1 3/4 x 1 3/4	4	2 3/16	2 9/16	2
20C71	16	80	360	2,500	GGV	2 x 1 11/16	3 3/16	2 5/8	2 5/8	2.5
20C86	20	80	350	2,500	BAH	3 1/8	2 1/4	3 3/4	2 1/4	1.5
27C102	2	85	135	2,500	AH	1 1/4	1 3/4	1 5/16	1 5/16	.37
20C87	8	85	250	2,500	BAH	3 1/8	2 1/4	3 3/4	2 1/4	1.5
27C16	10	85	175	2,500	GB	1 3/4 x 2 1/8	2 13/16	2 3/8	2 3/4	2.5
27C90	10	85	175	2,500	YY	1.812 x 1.687	3.049	2.521	2.381	2.5
25C28	10	85	175	2,500	TAV	1 3/4 x 2 11/16	3 5/16	3	2 1/2	2.5
25C52	10	85	175	2,500	TTV	1 3/4 x 2 11/16	3 5/16	3	2 1/2	2.5
27C17	15	85	285	2,500	GB	1 3/4 x 2 1/8	2 13/16	2 3/8	2 3/4	2.75
27C91	15	85	285	2,500	YY	1.812 x 1.687	3.049	2.521	2.381	2.75
25C29	15	85	285	2,500	TAV	1 3/4 x 2 11/16	3 5/16	3	2 1/2	2.75
25C53	15	85	285	2,500	TTV	1 3/4 x 2 11/16	3 5/16	3	2 1/2	2.75
20C07	4	90	100	1,500	BAH	2 13/16	2	3 5/16	1 3/4	1
27C122	7	90	270	1,500	ZZ##	1 1/4 x 1 7/16	2 3/8	2	2	1
20C06	10	90	270	1,000	BAH	2 13/16	2	3 5/16	2	1.3
27C123	10	90	175	1,500	GB	1 3/4 x 2 1/8	2 13/16	2 3/8	2 3/4	2.75
20C62	.2 to 1.5	100	95	2,700	BAH	2 13/16	2	3 1/4	2	1.25
20C123	2	100	100	500	BAH	2	1 3/8	2 3/8	1 1/4	.5
27C124	3.8	100	105	1,750	YY	1 11/16 x 2 1/8	3 3/16	2 3/4	2 3/8	2
20C88	5	100	300	3,000	BAH	2 13/16	2	3 1/4	1 3/4	1.2
20C67	5	100	300	2,500	TAV	2 3/8 x 1 1/2	2 3/4	2 1/4	2 11/16	1.5
27C125	10	100	200	2,500	YY	2 1/2 x 2 1/16	3 1/2	3 9/16	2 13/16	1.75
20C38	14	100	450	1,500	BAH	3 1/8	2 5/16	3 3/4	1 5/8	1.5
27C126	25	100	380	7,500	LB	3 5/16 x 2 11/16	4 1/2	4 5/16	3 11/16	10
25C62	30	100	400	1,750	RC	2 3/8 x 2 3/8	3 3/4	3	3	3.5
27C103	2	105	110	2,500	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16	1
27C18	8	105	100	2,500	HB	1 55/64 x 2 19/64	3 3/16	3 1/16	2 5/8	3.75
27C92	8	105	100	2,500	YY	2 x 1.875	3.742	2.861	2.711	3.75
25C30	8	105	100	2,500	TAV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.75
25C54	8	105	100	2,500	TTV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.75
27C19	12	105	170	2,500	HB	1 55/64 x 2 19/64	3 3/16	3 1/16	2 5/8	4
27C93	12	105	170	2,500	YY	2 x 1.875	3.742	2.861	2.711	4
25C31	12	105	170	2,500	TAV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	4
25C55	12	105	170	2,500	TTV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	4
20C08	6	110	160	1,500	BAH	3 1/8	2 5/16	3 3/4	2	1.5
26C85	10.5	110	225	3,000	BAH	3 9/16	2 5/8	2 1/2	4	1.75
20C89	12	110	250	2,500	GGV	2 x 1 11/16	3 1/8	3	2 5/8	2.5
27C28	2	120	100	2,500	EB	1 1/4 x 1 3/8	2 7/16	1 13/16	1 15/16	1
27C127	2	120	75	1,500	FB	1 11/16 x 1 7/16	2 1/2	2 5/16	2 1/16	1.75
27C107	2	120	100	2,500	YY	1.312 x 1.062	2.424	1.901	1.791	1
27C73	3	120	150	1,500	EB	1 1/4 x 1 3/8	2 7/16	1 13/16	1 15/16	1

Encapsulated

CONTINUED NEXT PAGE

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Choke

Choke IN ORDER OF MADC continued

Part No.	Inductance Henrys	Inductance MADC	DC Res. In Ohms	Test Volts RMS	✪ Mtg Type	Mtg Center	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
20C90	8	120	350	2,500	BAH	3 5/8	2 5/8	4	2 1/8	1.5
27C74	15	120	185	2,500	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5.25
26C83	7	125	300	2,500	BAH	2 13/16	2	3 1/4	2 1/8	1.5
27C128	7	125	300	1,000	ZZ##	2 13/16	2 1/8	3 1/4	1 13/16	1.6
27C129	8	125	135	2,700	YY	2 1/2 x 2 1/16	4	3 17/32	2 27/32	4
20C09	9	125	250	1,000	BAH	3 1/8	2 5/16	3 3/4	2	1.5
27C130	10	125	200	2,000	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	3
26C88	2.5	130	100	2,500	BAH	2 13/16	2	3 1/4	1 3/4	1.2
20C64	4	130	100	2,500	BAH	3 1/8	2 1/4	3 3/4	2 5/8	1.5
20C91	8	130	110	2,500	GGV	2 x 1 15/16	3 1/8	3	2 3/4	2.5
20C124	10	130	125	2,700	GGV	2 1/4 x 2	3 1/2	2 13/16	3 1/8	2.8
27C131	10	136	100	2,500	YY	3 x 2 1/2	4 1/16	3 5/16	3 13/16	3
27C104	2	150	95	2,500	EB	1 3/8 x 1 1/4	2 7/16	1 13/16	1 15/16	1
26C89	2.3	150	60	2,500	BAH	2 13/16	2	3 1/4	1 3/4	1
20C68	7	150	200	2,500	BAH	3 9/16	2 5/8	4	2 1/4	2.2
25C92	7	150	170	1,500	TAV	1 3/4 x 2 11/16	3	2 1/2	3	2.3
20C92	7.5	150	160	2,500	GGV	2 x 1 15/16	3 1/8	3	2 3/4	2.3
20C54	8	150	145	2,700	GGV	2 x 1 3/4	3 1/8	2 5/8	2 5/8	2.2
20C54P	8	150	145	2,700	WAV	2 3/4 x 2 3/8	4 3/8	3	3 3/8	3
27C20	8	150	100	2,500	JB	2 1/8 x 2 5/8	3 7/8	3 1/16	3 9/16	5.25
27C94	8	150	100	2,500	YY	2.375 x 2.125	3.867	3.245	2.979	5.25
25C32	8	150	100	2,500	TAV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5.25
25C56	8	150	100	2,500	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5.25
25C65	12	150	110	2,500	RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
27C21	12	150	150	2,500	JB	2 1/8 x 2 5/8	3 7/8	3 1/16	3 9/16	5.5
27C95	12	150	150	2,500	YY	2.375 x 2.125	4.242	3.245	2.979	5.5
25C33	12	150	150	2,500	TAV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5.5
25C57	12	150	150	2,500	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5.5
20C12	3	160	75	1,500	BAH	3 1/8	2 5/16	3 3/4	2 1/8	1.75
20C11	6	160	165	1,500	BAH	3 1/8	2 5/16	3 3/4	2 1/8	1.75
20C10	6	160	165	1,500	GGV	1 3/4 x 1 3/4	2 25/32	2 11/32	2 1/2	2
27C29	2	165	90	2,500	EB	1 1/4 x 1 3/8	2 7/16	1 13/16	1 15/16	1.5
27C108	2	165	90	2,500	YY	1.312 x 1.062	2.424	1.901	1.791	1.5
27C133	7.5	165	200	1,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.25
20C93	4	175	100	3,000	GGV	2 x 1 11/16	3 1/8	3	2 5/8	2.5
20C125	.1	200	21	500	BAH	1 3/4	1 3/16	2 1/8	1	.3
20C126	.63	200	42	500	BAH	2	1 3/8	2 3/8	1 1/4	.5
26C41	1.5	200	90	2,500	BAH	2 3/8	1 5/8	2 7/8	1 5/8	.75
26C43	2	200	50	2,500	BAH	2 13/16	2	3 1/8	1 5/8	1
26C94	2	200	60	2,500	BAH	3 1/8	2 1/4	3 3/8	2 1/4	1.5
27C30	2	200	73	2,500	FB	1 7/16 x 1 11/16	2 1/2	2 1/16	2 5/16	1.75
27C109	2	200	73	2,500	YY	1.562 x 1.375	2.93	2.241	2.101	1.75
27C75	3	200	105	2,000	FB	1 11/16 x 1 7/16	2 1/2	2 5/16	2 1/16	1.75
20C49	4.5	200	58	2,500	BAH	3 5/8	2 5/8	4	2 1/8	2.5
20C94	4.5	200	80	3,000	GGV	2 1/4 x 2	3 5/8	3	3 1/8	3.5
20C105	5	200	90	5,000	GGV	2 1/2 x 2 3/16	4	3 1/4	3 3/8	4.5
20C55	6	200	75	2,500	GGV	2 x 2 1/4	3 1/8	2 7/8	3 1/4	3.5
20C55P	6	200	75	2,500	WAV	3 1/8 x 3 5/8	4 7/8	4 1/4	3 3/4	5
20C14	6	200	150	1,500	BAH	3 9/16	2 5/8	4	2 1/4	2.3
20C13	6	200	150	1,500	GGV	2 x 1 7/8	3 3/32	2 21/32	2 5/8	2.5
20C95	8	200	125	3,000	GGV	2 1/4 x 2	3 5/8	3	3 1/8	3.5
27C22	8	200	85	2,500	JB	2 1/8 x 2 5/8	3 7/8	3 1/16	3 9/16	7
27C96	8	200	85	2,500	YY	2.625 x 2.375	4.305	3.667	3.292	7
25C34	8	200	85	2,500	TAV	3 7/8 x 2 3/4	4 1/4	3 5/8	4 7/16	7
25C58	8	200	85	2,500	TTV	3 7/8 x 2 3/4	4 1/4	3 5/8	4 7/16	7
20C96	8.5	200	120	3,000	LAV	3 1/2 x 2 1/4	3 7/8	3 1/8	3	4.5
26C45	10	200	140	3,000	GGV	2 7/8 x 2 1/4	3 1/2	2 7/8	4 1/8	4.9
25C61	10	200	110	1,750	RC	2 11/16 x 2 11/16	4 1/8	3 7/16	3 7/16	5
27C76	10	200	100	2,500	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	6.6
27C49	11 10 8.5 6.5	200 230 250 300	90	2,500	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7
27C50	11 10 8.5 6.5	200 230 250 300	85	4,500	LB	3 5/16 x 2 11/16	4 1/2	4 5/16	3 11/16	10
27C23	12	200	140	2,500	JB	2 1/8 x 2 5/8	3 7/8	3 1/16	3 9/16	7
27C97	12	200	140	2,500	YY	2.625 x 2.375	4.305	3.667	3.292	7

Encapsulated

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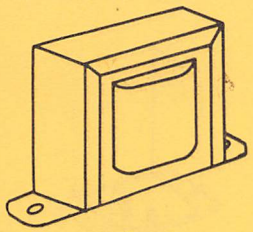
✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS, AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



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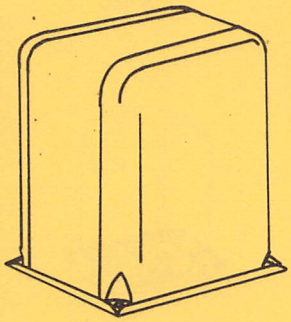
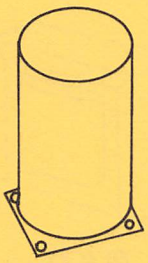


WAV



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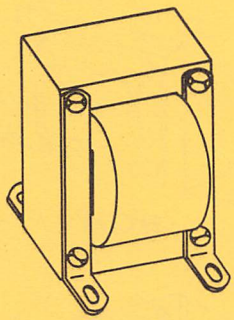
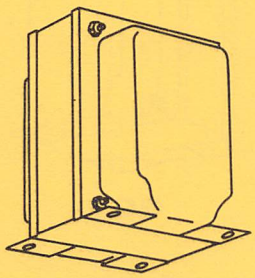


LAV



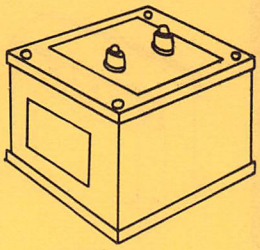
GGV

GTV

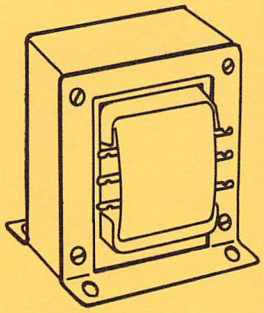
GTV SAME AS GGV BUT WITH LUGS

GUV

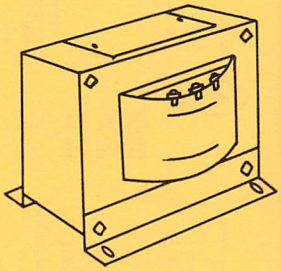
GUV SAME AS GGV BUT WITH BUSHINGS ON SIDE OF SHIELD



KTV



CAV



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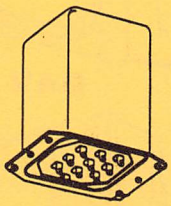
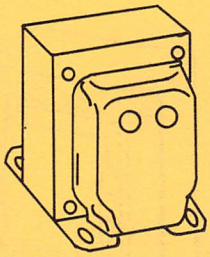


TAV leads
TTV lugs

TYV TSV

TYV SAME AS TTV
BUT WITH BUSHINGS



GGV-2

Choke IN ORDER OF MADC continued

Part No.	Inductance Henrys	Inductance MADC	DC Res. In Ohms	Test Volts RMS	Mtg ✪ Type	Mtg Center	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
25C35	12	200	140	2,500	TAV	3 7/8 x 2 3/4	4 1/4	3 5/8	4 7/16	7
25C59	12	200	140	2,500	TTV	3 7/8 x 2 3/4	4 1/4	3 5/8	4 7/16	7
20C97	15	200	150	5,000	GGV	3 x 2 9/16	4 3/4	4	3 3/4	5.5
20C127	20	200	56	3,000	GGV	3 x 4 13/16	4 5/8	3 3/4	5 7/8	15
27C60	2	220	35	2,500	Molded	2 3/16 x 2 1/16	2 17/32	2 1/2	2 7/8	1.7
	1.5	270								
	1	325								
26C76	1	240	50	1,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.75
20C129	12	240	126	2,400	GUV	3 x 3	4 5/8	3 3/4	4 1/8	7
20C16	4	250	100	1,500	BAH	3 9/16	2 5/8	4	2 1/4	2.3
26C90	4	250	60	3,000	GGV	2 1/4 x 2 3/8	3 5/8	3	3 1/2	4.3
20C98	4	250	60	3,000	LAV	2 1/4 x 2 1/2	3 1/2	2 7/8	3 1/8	4.25
20C15	4	250	100	1,500	GGV	2 x 1 7/8	3 1/8	2 11/16	2 5/8	3
20C130	4.5	250	100	1,000	LHH	2 1/8 x 2 1/2	2 5/8	3 1/8	2 1/4	3.2
20C131	5	250	70	3,000	GGV	2 x 2	3 1/8	2 11/16	2 7/8	3
20C56	8	250	60	3,500	GGV	2 1/2 x 3	3 7/8	3 1/2	4 1/4	6.7
20C56P	8	250	60	3,500	WTV	3 1/8 x 3 5/8	4 7/8	4 1/4	3 3/4	8.5
27C24	8	250	90	2,500	MB	3 x 3 11/16	4 15/16	4	4 11/16	10.5
27C98	8	250	90	2,500	YY	3.375 x 3	5.318	4.573	4.12	10.5
25C36	8	250	90	2,500	TAV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	10.5
25C60	8	250	90	2,500	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	10.5
27C134	10	250	110	1,500	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	5.5
20C132	12	250	100	2,250	GGV	2 1/2 x 2 3/4	3 7/8	3 1/8	3 7/8	5
25C66	12	250	100	3,000	RC-150	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11
25C40	65	250	200	5,000	TSV-11	5 x 7	8	7 7/8	7 1/16	41
27C135	10	275	120	2,500	YY	2 1/2 x 2 3/4	4 15/32	3 23/32	3 15/32	7
26C77	.7	290	30	1,500	BAH	2 3/8	1 5/8	2 13/16	1 1/2	.75
20C60	.2 to 1.5	300	47	9,000	KTV	3 1/8 x 2 5/8	4 1/2	3 1/2	4 3/8	7
20C29	.05 to 1 Tapped	300	40	5,000	BHH	3 9/16	2 5/8	4	2 1/4	2
26C80	.5	300	30	1,500	BAH	2	1 3/8	2 3/8	1 1/2	.5
20C133	.5	300	5	1,000	CAV	2 1/4 x 2 1/8	3 7/16	2 13/16	3	3.5
26C93	1	300	43	2,500	BAH	3 1/8	2 1/4	3 3/4	2 1/4	1.7
26C44	1	300	60	2,500	BAH	2 13/16	2	3 1/4	2 1/8	1.5
27C34	2	300	48	2,500	GB	1 3/4 x 2 1/8	2 13/16	2 3/8	2 3/4	2.5
27C31	2	300	47	2,500	HB	1 55/64 x 2 19/64	3 3/16	2 5/8	3 1/16	3.25
27C110	2	300	47	2,500	YY	2 x 1.875	3.492	2.861	2.711	3.25
26C91	2.8	300	60	2,500	BAH	3 9/16	2 5/8	2 1/4	4	2.5
20C134	6	300	68	1,500	GGV	2 1/2 x 2 1/2	3 7/8	3 1/8	3 5/8	4.5
27C136	6	300	68	1,500	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	5.5
25C48	6	300	35	7,500	TYV	3 1/2 x 5 3/8	6 1/16	5 1/16	5 7/8	16.5
20C17	8	300	90	2,500	GGV	2 1/2 x 2 3/4	3 7/8	3 9/32	3 5/8	6.3
20C69	8	300	80	3,000	GGV	3 x 2 13/16	4 3/4	4	3 7/8	7.8
20C106	8	300	80	3,000	GTV	3 x 2 13/16	4 3/4	4	3 7/8	7.8
20C70	8	300	80	3,000	CAV	3 x 2 1/2	4 5/8	3 1/2	3 3/4	7.3
27C25	8	300	60	3,500	MB	3 x 3 11/16	4 15/16	4	4 11/16	12.5
27C99	8	300	60	3,500	YY	3.375 x 3	5.318	4.573	4.120	12.5
25C37	8	300	60	3,500	TAV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	12.5
25C43	8	300	60	3,500	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	12.5
20C18	10	300	105	3,000	GGV	2 3/4 x 3	4 1/4	3 5/8	4 1/8	7.75
27C36	10	300	85	2,500	LA	2 11/16 x 3 5/16	5 9/16	3 11/16	4 5/16	10.5
25C47	10	300	40	7,500	TYV-10	6 x 4 1/4	7 1/16	6 1/8	6 1/2	22
27C51	10	300	60	5,500	MB	3 11/16 x 3	4 15/16	4	4 11/16	14
	9	350								
	8	390								
	6.5	435								
20C19	2.6	310	60	1,500	GGV	2 x 2 3/8	3 1/8	2 11/16	3 1/8	3.6
26C79	.6	350	35	1,500	BAH	2 3/8	1 5/8	2 13/16	1 1/2	.6
26C78	1	350	35	1,500	BAH	2 13/16	2	3 5/16	2	1.35
20C20	8	350	105	5,000	GGV-2	3 x 2 7/8	4 5/8	3 15/16	4	8
25C67	10	350	90	5,000	RC-152	4 1/8 x 4 1/8	5 1/2	5 1/8	5 1/8	15.5
20C99	15	350	150	5,000	GGV	3 x 4 1/16	4 3/4	4	5 1/4	11
26C92	.8	375	25	2,500	BAH	3 1/8	2 5/16	3 11/16	2	1.5
20C21	1.5	375	50	1,500	BAH	3 1/8	2 5/16	3 11/16	2	1.5
26C95	2.75	380	46	2,500	BAH	3 9/16	2 5/8	4	2	2.5
27C137	3	400	50	1.5	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7
20C22	6	400	60	300	GGV	3 x 3 3/4	4 5/8	3 15/16	4 1/2	10.5
27C52	7	400	48	7,000	OA	3 3/4 x 3	6 3/4	4 1/2	5 1/2	21
	6.5	430								
	6	465								
	5.5	500								

CONTINUED NEXT PAGE

✪ 27 SERIES

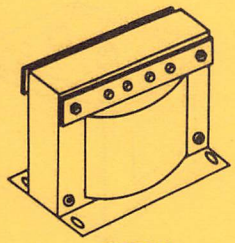
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Choke

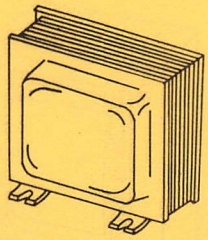
Choke

IN ORDER OF MADC continued

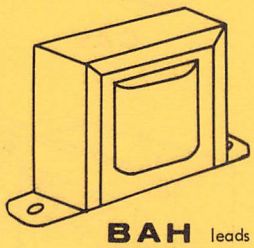
Part No.	Inductance Henrys	Inductance MADC	DC Res. In Ohms	Test Volts RMS	Mtg Type	Mtg Center	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
20C107	7.5	400	60	5,000	GTV	3 x 3 13/16	4 3/4	4	5 1/8	11.8
25C41	50	400	200	10,000	PUV	4 9/32 x 9 1/8	9 5/8	7 9/16	9 7/8	50
27C138	1	420	16	2,000	YY	1 15/16 x 2 7/8	3 5/8	3 1/16	2 11/16	3
20C135	1	500	10	1,000	CAV	2 x 2	3 1/16	2 1/2	2 1/2	2.4
27C139	2	500	40	1,500	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5
25C46	6	500	35	9,000	PUH	4 3/4 x 5 1/2	7	6 5/16	7 1/2	35
20C23	10	500	65	3,000	GGV	3 1/2 x 4 1/8	5 5/16	4 1/2	5 1/8	16.5
20C24	10	500	65	5,000	GGV-2	3 1/2 x 4 1/8	5 5/16	4 1/2	5 1/8	17.75
25C68	10	500	52	7,000	RC-175	4 7/8 x 4 7/8	7	5 3/4	5 3/4	22
20C57	10	500	65	7,000	PUV	7 x 2 3/4	6	4 3/4	7 3/4	25
25C45	10	500	40	9,000	PUH	6 1/4 x 4 3/4	7	7 1/2	7 1/8	35
27C140	11	500	60	10,000	YY	4 7/8 x 4 7/8	7	5 11/16	5 11/16	25
TR-152	.012	600	.58	500	BAH	1 3/4	1 3/16	2	1 1/16	.2
20C136	.16	600	6	1,000	BAH	2 3/8	1 5/8	2 13/16	1 5/8	.8
20C137	.25	600	8	1,000	BAH	2 13/16	2	3 1/4	2 1/8	1.5
26C81	.32	600	10	1,500	BAH	2 13/16	2	3 1/4	2	1.3
20C138	.12	675	3.6	1,500	BHH	2 13/16	2	3 1/4	1 3/4	1
25C44	6	700	35	10,000	PUH	4 3/4 x 5 5/16	7	7 1/2	6 7/8	35
20C139	10	700	40	10,000	CTH	5 5/16 x 4	5 3/8	6 3/16	4	15
20C140	.15	800	2.3	1,000	BAV	2 13/16	2 11/16	3 5/16	2 1/8	1.5
27C141	.5	800	3	1,500	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	6
27C142	.01	900	1.7	1,000	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.5
TR-153	.003	1 A.	.25	1,000	BCH	1 1/4 x 7/16	1 1/4	1 1/2	1	.6
TR-154	.011	1 A.	.75	1,000	BCH	1 1/4 x 7/16	1 1/4	1 1/2	1	.6
27C143	.04	1 A.	1.7	1,500	YY	1 3/8 x 1 3/4	1 7/8	2 1/2	2 3/16	1.2
20C141	.16	1 A.	3.6	1,000	BAH	3 1/8	2 1/4	3 11/16	2	1.5
27C144	.2	1 A.	5	1,680	GB	2 1/8 x 1 3/4	2 13/16	2 3/4	2 3/8	2.5
20C142	.25	1 A.	6.5	1,000	BAH	3 9/16	2 1/2	4	2 1/4	2.5
20C143	.5	1 A.	10	1,000	CAV	2 1/2 x 2 1/8	3 13/16	3 1/8	2 5/8	4
27C145	.5	1 A.	5	2,000	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	4.5
20C144	5	1 A.	24	3,500	CTV	4 1/4 x 6 3/8	6 7/16	5 1/4	7 3/8	33
20C145	8	1 A.	70	5,000	CTV	4 1/4 x 5 3/8	6 7/16	5 1/4	6 3/8	29
20C146	2.5	1.5 A.	20	2,000	CAV	5 5/16 x 4 1/2	8 9/16	6 3/16	5 1/2	34
TR-155	.008	1.9 A.	.5	500	BAH	1 3/4	1 3/16	2	1 1/8	.25
TR-156	.005	2 A.	.33	500	BAH	1 3/4	1 3/16	2	7/8	.2
TR-157	.005	2 A.	.35	500	BAH	1 3/8	3/4	1 5/8	3/4	.05
TR-158	.005	2 A.	.33	500	BAV	1 1/2	1 7/16	1 7/8	1 1/8	.17
20C00	.035	2 A.	.75	1,500	LHH	2 3/16 x 2	2 3/8	2 5/8	2 3/4	1.9
20C147	.04	2 A.	1.0	500	BAH	3 1/8	2 1/4	3 11/16	2	1.5
20C148	.5	2.5 A.	3.5	1,500	CAV	3 1/4 x 2 1/2	5	4 1/16	3 1/2	10
TR-159	.003	3 A.	.22	500	BAH	1 3/8	3/4	1 5/8	3/4	.05
20C150	.085	3 A.	.25	1,500	CAV	3 1/4 x 3 5/8	5	4 1/16	5	13.5
20C151	.087	3 A.	.372	1,500	CAH	3 3/4 x 4	3 13/16	4 1/2	4 1/2	12.5
20C01	.025	4 A.	.425	1,500	LHH	2 13/16 x 2 1/8	3	3 3/8	2 7/8	3.4
27C146	.025	4 A.	.25	500	KB	2 7/16 x 3	4 5/16	3 15/16	3 3/8	5.5
20C02	.01	8 A.	.15	1,500	LHH	3 1/8 x 2 1/2	3 1/4	3 3/4	3 3/16	5.3
20C153	1	9 A.	1	2,700	PUV	4 9/32 x 4 3/8	9 5/8	7 9/16	13	70
27C147	.85	12 A.	.015	900	KB	2 7/16 x 3	4 5/16	3 3/8	3 15/16	6
20C03	.01	12.5 A.	.11	1,500	LHH	3 7/16 x 2 3/8	3 1/2	4 1/8	3 1/16	5.9
20C100	.005	22.5	.03	1,500	LHH	3 3/4 x 3 1/2	3 7/8	4 1/2	4 1/2	11.9
27C148	.005	30	.05	900	YY	5 x 3 7/8	7 5/8	7	5 3/16	28



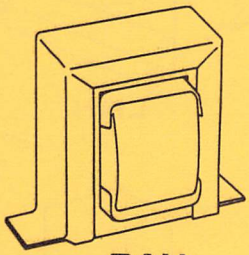
CTH
CTV
LHH



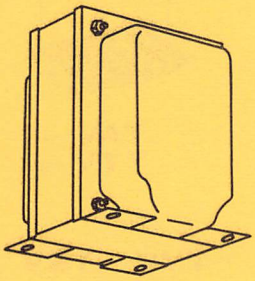
PUH



BAH leads
BHH lugs



BAV



GGV
GGV-2

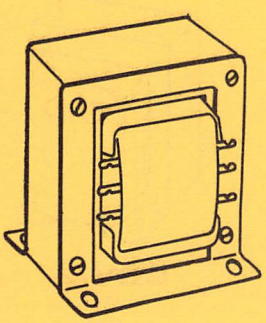
GGV-2 SAME AS GGV
TH LEADS OUT OF SHIELD

Splatter Suppressor Filters

(Modulation Reactor Type)

Phone transmission on the crowded amateur bands is greatly improved by a splatter suppression circuit. This unit limits transmission to the important voice frequencies, effectively reduces splatter interference caused by high levels of modulation and permits a higher average modulation level. Complete instruction for installation is furnished with these units.

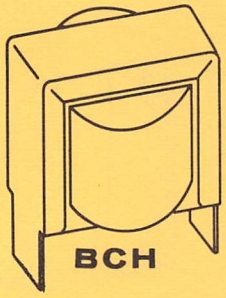
Part No.	Inductance Henrys at	Inductance MADC	D.C. Resistance	RMS Test	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
20C62	0.2 to 1.5	100	95	2,700	BAH	2 7/8	2	3 1/4	2	1.25
20C60	0.2 to 1.5	300	47	9,000	KTV	3 1/8 x 2 5/8	4 1/2	3 1/2	4 3/8	7
20C61	0.2 to 1.5	500	37	9,000	KTV	3 1/2 x 2 7/8	4 7/8	3 7/8	4 3/4	9.0



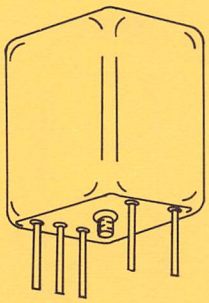
CAV leads

27 SERIES

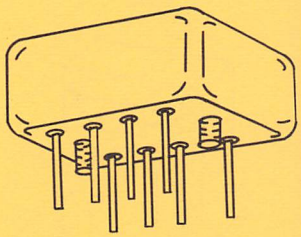
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



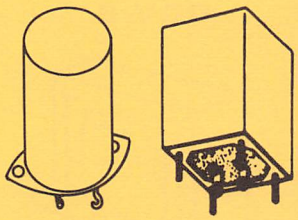
BCH



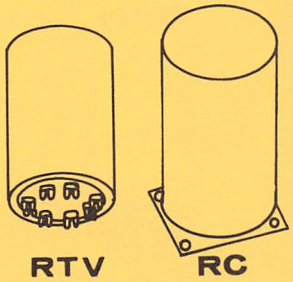
TSM



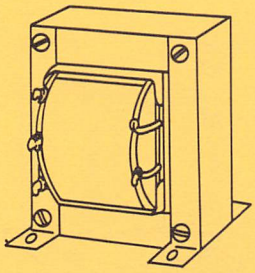
TFH



RC-25 UTV



RTV RC



LAV leads

Dual Winding Chokes

Part No.	Series Inductance Henrys	Series Inductance MADC	Parallel Inductance Henrys	Parallel Inductance MADC	Total DC Res.	Test Volts RMS	✪ Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D
MI-T152	4	0	1	0	400	500	BCH	17/32	7/16	17/32	7/16
27C38	100	0	50	1	4,400	500	TSM	1 – Stud	29/32	1/2	11/16
MI-T249	20 8	1 3	5 2	2 6	5,100	100	RAV ★	–	13/32	5/16 Dia.	
27C41	2.4	2	.6	4	160	500	TFH	2 – Studs	9/16	23/32	27/32
27C62	1 .2 .16	5 50 100	1.25 .05 .04	10 100 200	40	500	Molded	–	23/32	3/4	1
25C06	250	5	65	10	6,000	500	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
27C44	250	5	65	10	6,000	500	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
27C40	1	8	.25	10	100	500	TFH	2 – Studs	9/16	23/32	27/32
MI-T250	.075 .06	10 30	.018 .015	20 60	10.5	100	RAV ★	–	13/32	5/16 Dia.	
27C46	40	15	10	30	1,000	500	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
25C07	60	15	15	30	2,000	500	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
25C05	1	20	.25	40	60	500	RTV	11/16	1 3/16	7/8 Dia.	
27C43	1	20	.25	40	60	500	RC-25	1 1/8	1 7/16	15/16 Dia.	
27C39	.060	32	.015	64	6	500	TFH	2 – Studs	9/16	23/32	27/32
27C53	52 MH 40 MH 18 MH 9 MH	35 75 350 750	13 MH 10 MH 4.5 MH 2.25 MH	70 150 700 1.5A	1	500	AG	3/4	1 3/8	1	1
27C54	125 MH 80 MH 20 MH 12 MH	50 100 500 1 A.	31 MH 20 MH 5 MH 3 MH	100 200 1 A. 2 A.	1.2	500	AH	1 1/4	1 3/4	1 5/16	1 5/16
27C45	4	50	1	100	100	500	RC	1 5/16 x 1 5/16	2 5/16	1 5/8	1 5/8
○ 25C09	4	50	1	100	100	500	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
27C149	10	60	2.5	120	300	1,700	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
27C57	9 MH 5 MH 2.2 MH 1.6 MH	75 1.5 A. 7.5 A. 15 A.	2.25 MH 1.5 MH .55 MH .4 MH	1.5 A. 3 A. 15 A. 30 A.	.03	1,000	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16
25C04	60 MH	80	15 MH	160	4	500	RTV	11/16	1 3/16	7/8 Dia.	
27C42	60 MH	80	15 MH	160	4	500	RC-25	1 1/8	1 7/16	15/16 Dia.	
27C01	16	80	4	160	645	2,400	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16
27C02	25	80	6.25	160	670	2,400	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8
27C03	40	80	10	160	1,020	2,400	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8
27C151	4	90	1	180	50	1,500	HA	2 19/64 x 1 55/64	4 1/4	3 1/8	2 5/8
27C55	68 MH 52 MH 20 MH 14 MH	100 200 1 A. 2 A.	17 MH 13 MH 5 MH 3.5 MH	200 400 2 A. 4 A.	.8	750	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8
27C56	180 MH 140 MH 25 11	125 250 1.25A. 2.5 A.	45 MH 35 MH 6.5 MH 3 MH	250 500 2.5 A. 5 A.	.6	1,000	GB	2 1/8 x 1 3/4	2 13/16	2 3/8	2 3/4
27C04	16	125	4	250	330	3,800	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8
27C05	25	125	6.25	250	460	3,800	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16
27C06	40	125	10	250	535	5,900	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8
27C150	10	140	2.5	280	96	1,500	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16
27C61	200 MH 25 MH 11 MH	150 1.25A. 2.5 A.	55 MH 6.25 MH 2.7 MH	250 2.5 A. 5 A.	.6	750	Molded	2 3/16 x 2 1/16	2 17/32	2 1/2	2 7/8
25C08	240 MH	200	60 MH	400	6	500	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2
27C07	16	200	4	400	180	5,900	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16
27C08	25	200	6.25	400	210	5,900	MA	3 11/16 x 3	6	4 11/16	4
27C152	10	210	2.5	420	136	1,875	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8
27C58	70 MH 65 MH 20 MH 9 MH	250 400 2 A. 4 A.	17.5 MH 16 MH 5 MH 2.25 MH	500 800 4 A. 8 A.	.22	1,000	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8
27C09	16	315	4	630	105	5,900	NA	4 1/16 x 3 5/16	6 13/16	5 1/16	4 5/16
○ 27C10	25	315	6.25	630	150	5,900	YY	4 1/16 x 3 7/16	7 1/2	5 15/16	4 13/16
27C59	90 MH 80 MH 18 MH 9 MH	500 800 4 A. 8 A.	22.5 MH 20 MH 4.5 MH 2.25 MH	1 A. 1.6 A. 8 A. 16 A.	.15	1,000	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8
20C25	300 MH	1 A.	75 MH	2 A.	3	1,500	LAV	2 1/4 x 2 11/16	3 1/2	2 7/8	3 3/16
20C26	80 MH	2.5 A.	20 MH	5 A.	.61	1,500	LAV	2 1/2 x 3 1/16	3 13/16	3 3/16	3 9/16
20C27	32 MH	5 A.	8 MH	10 A.	.19	1,500	LAV	2 3/4 x 3 1/16	4 1/4	3 1/2	3 9/16
20C28	24 MH	10 A.	6 MH	20 A.	.1	1,500	LAV	2 3/4 x 4 1/2	5 5/16	4 9/16	5 1/2

★ For complete information refer to Page 29

✪ 27 SERIES

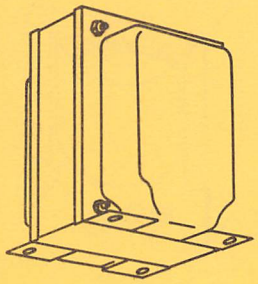
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Chokes

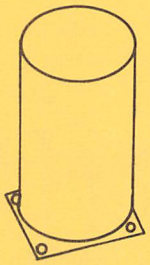
Swinging Chokes

Part No.	Inductance Henrys	Inductance MADC	DC Res. In Ohms	Test Volts RMS	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
20C75	4-14	150-15	125	2,000	GGV	2 x 1 9/16	3 1/8	2 5/8	2 1/2	2.5
25C69	5-25	150-15	110	2,500	RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
20C76	2-12	175-17.5	100	3,000	GGV	2 x 1 11/16	3 1/8	2 5/8	2 5/8	2.5
20C77	2-12	200-20	80	3,000	GGV	2 1/16 x 2 1/4	3 5/8	3	3 1/8	3.5
20C108	2-12	200-20	90	5,000	GGV	2 1/2 x 2 3/16	4	3 1/4	3 3/8	4.5
20C39	3-15	200-20	90	1,500	BAH	3 9/16	2 5/8	4 1/8	2 1/4	2.5
20C30	5-25	200-20	150	2,500	GGV	2 1/4 x 2 3/8	3 1/2	3	3 1/2	4.6
20C109	2-12	250-25	60	3,000	LHV	2 1/4 x 2 1/2	3 1/2	2 7/8	3 1/8	4.3
20C78	2-12	250-25	60	3,000	GGV	2 1/4 x 2 3/8	3 5/8	3	3 1/2	4.25
20C72	4-16	250-25	130	3,000	GGV	2 1/2 x 2 1/2	3 7/8	3 1/4	3 3/4	6
20C155	5-25	250-25	100	2,000	GGV	2 1/2 x 2 3/8	3 7/8	3 1/8	3 1/2	5
25C70	5-25	250-25	100	3,000	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11
20C110	4-20	300-30	80	3,000	LAV	3 x 2 1/2	4 5/8	3 3/4	3 1/2	7.2
20C79	4-20	300-30	80	3,000	GGV	3 x 2 13/16	4 3/4	4	3 7/8	8
20C31	5-25	300-30	105	3,000	GGV	2 3/4 x 3	4 1/4	3 5/8	4 1/8	7.6
20C32	4-20	350-35	105	5,000	GGV-2	3 x 2 7/8	4 5/8	3 15/16	4	8
20C80	5-15	350-35	100	5,000	GGV	3 x 2 9/16	4 3/4	4	3 3/4	8
25C71	5-25	350-35	90	5,000	RC	4 1/8 x 4 1/8	5 1/2	5 1/8	5 1/8	15.5
20C33	4-20	400-40	65	3,000	GGV	3 x 3 3/4	4 5/8	3 15/16	4 1/2	10.5
20C41	5-25	500-50	65	3,000	GGV	3 1/2 x 4 1/8	5 5/16	4 1/2	5 1/8	16.75
20C34	5-25	500-50	65	5,000	GGV-2	3 1/2 x 4 1/8	5 5/16	4 1/2	5 1/8	17
25C72	5-25	500-50	52	7,000	RC	4 7/8 x 4 7/8	7	5 3/4	5 3/4	22
20C40	8-100 MH* 2-25 MH#	2.5 A.-250 5 A.-500	.6 .16	1,500	BAH	3 1/8	2 5/16	3 3/4	2	1.5
25C73	10-100 MH* 2.5-25 MH#	2.5 A.-250 5 A.-500	.6 .15	1,500	RC	2 3/16 x 2 3/16	3 1/4	2 9/16	2 9/16	2.5

* Series Connected
\# Parallel Connected



GGV



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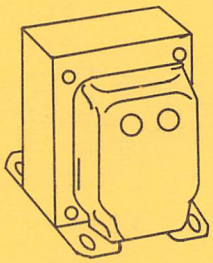
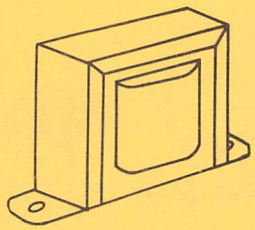


GGV-2

Tone Control Unit

This Dual Tone Control was developed to provide an effective tone compensating network for any sound system. The treble and bass frequencies may be attenuated or accentuated indepently of one another. The system is applicable wherever smooth control over a wide range of audio frequencies is desired. The Dual Tone Control may be installed between two resistance - coupled stages of an amplifier. Full instructions for assembly, schematic and pictorial diagrams are furnished with the Controls and Chokes.

Part No.	Application	Mtg. Type	Mtg. Centers	H	Base Area	Wt. Lbs.
20C74	22H Inductance Choke 0 D.C.M.A.	RAV	1 3/8 x 1 3/8	2	1 5/8 Dia.	0.5
R-1068X	Dual tone potentiometer to accompany 20C74					



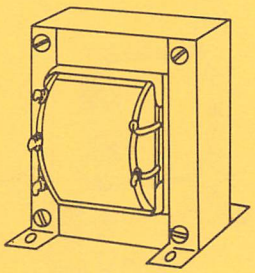
BAH

Band Pass Filters

The speech filter has been designed for Amateur, Police, Emergency Radio Service and special audio applications. It is a small compact band pass filter with all components contained in a fully potted case. The 20C73 speech filter will function very well at any signal level up to 10 V.R.M.S. across the 100,000 ohm output grid circuit or .69 Volts R.M.S. at 500 ohms. In addition to the applications listed above, this unit is ideal for all communication receivers as a speech filter. It will limit the audio response and, thus, suppress high pitched heterodyne signal.

Part No.	Application	Mtg Type	Mtg Centers	H.	Base Area	Wt. Lbs.
20C73	Passes 20-3500 Cps. Input 10,000	RTV	1 3/8 x 1 3/8	2 1/2	1 7/8" Dia.	0.5

RAV (LEADS)
RTV (LUGS)



LAV (LEADS)
LHV (LUGS)

Tube - Filament Chart

RECTIFIERS (INCLUDING THYRATRONS)

An entirely new concept of rectifier filament transformer replacement information is given in the chart below. The correct filament transformer is listed for each rectifier tube in the four columns to the right; giving the single or two tube (full wave) operation for either commercial or ruggedized outdoor and military applications.

To select the proper transformer for the application simply find the correct tube number and read to the right for the transformer that must be used. The exact column to be used will be determined by the application and circuitry.

Use the column marked "transformer — single tube" for individual heated filaments.

Use the column marked "transformer — two tube — full wave" for two tube (full wave) rectifier filaments.

All transformers having the 25F — Prefix are used for ruggedized outdoor applications.

All transformers having the 27F — Prefix are used for ruggedized outdoor or MIL-T-27A applications.

Three separate filament transformers are required for bridge type rectification such as used in high powered high efficiency applications. Use one transformer from the "two tube" column and two transformers from the "single tube" column to find these units.

See the following pages for mounting type, size, RMS test volts, primary voltages and weights.

Tube	COMMERCIAL TRANSFORMER		MIL-T-27A TRANSFORMER	
	Single	Two Tube Full Wave	Single	Two Tube Full Wave
C1B/A	21F01	25F59	27F37	27F49
C1J/A	21F01	25F59	27F37	27F49
C1K	21F01	25F59	27F37	27F49
2C33/RX233A	21F35	21F00	27F36	27F46
2D21	21F21	21F09	-	27F54
C3J/A	21F01	-	27F37	-
3B25	21F31	25F37	27F46	27F47
3B26	-	21F02	-	27F44
3B28	21F31	25F59	-	27F48
3B29	-	21F02	-	27F44
3C23	21F01	25F59	27F37	27F49
3D22A	21F10	25F69	27F55	27F41
4B31	-	21F38	-	27F45
4B32	-	21F20	27F52	27F53
4C35	21F42	-	-	-
5AS4	21F03	21F37	27F38	27F39
5AW4	25F60	21F04	27F50	27F39
5R4GY	21F03	25F60	27F38	27F50
5R4GYA	21F03	25F60	27F38	27F50
5U4G	21F03	21F37	27F38	27F39
5Y3	21F03	25F60	27F38	27F50
6X4W	21F21	21F09	-	27F54
6X4WA	21F21	21F09	-	27F54
6X5WGT	21F21	21F09	-	27F54
KY21A	21F02	-	27F44	-
RX21A	21F02	-	27F44	-
FG27A	21F37	21F13	27F50	27F39
WL33	21F37	21F13	27F50	27F39
FG81A	21F00	21F01	27F46	27F37
FG97	21F00	21F01	27F46	27F37
FG98	21F00	21F01	27F46	27F37
FG104	21F13	25F63	27F39	27F53
FG105	21F13	25F63	27F39	27F53
FG154	21F04	26F66	27F39	-
FG172	21F13	25F63	27F39	27F53

Tube	COMMERCIAL TRANSFORMER		MIL-T-27A TRANSFORMER	
	Single	Two Tube Full Wave	Single	Two Tube Full Wave
FG178A	21F35	21F00	27F36	27F46
217C	21F61	25F74	-	-
249B	25F57	25F59	27F47	27F49
253	25F62	25F64	27F45	27F53
255B	25F64	-	27F53	-
GL280	21F13	25F63	27F39	-
315AW	25F62	25F64	27F45	27F53
GL393A	21F01	25F59	27F37	27F49
GL414	25F63	-	27F53	-
GL502A	21F21	21F09	-	27F54
575A	25F62	25F64	27F45	27F53
610	21F01	25F59	27F37	27F49
624	21F13	25F63	27F39	27F53
GL627	21F01	25F59	27F37	27F49
628	21F06	-	-	-
629	21F36	21F00	27F36	27F46
632B	21F37	21F13	-	27F51
KU636	21F01	25F59	27F37	27F49
GL672A	21F37	21F13	-	27F51
673	25F62	25F64	27F45	27F53
676	21F13	25F63	27F39	27F53
677	25F62	25F63	27F45	27F53
GL678	25F62	21F20	27F45	-
816	21F35	21F31	-	-
836	21F31	25F57	27F46	27F47
866A	21F31	21F02	-	27F44
872A	-	21F20	27F45	27F53
GL884	21F21	21F09	-	27F54
GL885	21F34	21F00	-	27F36
CK1028/A	21F21	21F09	-	27F54
1616	21F31	25F57	27F46	27F47
1641	21F36	21F37	27F38	27F39
GL2050	21F21	21F09	-	27F54
2051	21F21	21F09	-	27F54
GL5544	25F59	-	27F49	-

Tube	COMMERCIAL TRANSFORMER		MIL-T-27A TRANSFORMER	
	Single	Two Tube Full Wave	Single	Two Tube Full Wave
GL5557/FG-17	21F31	25F57	27F46	27F47
5558/FG-32	21F37	25F61	-	27F52
GL5559/FG-57	21F37	21F13	-	27F39
GL5560/FG-95	21F37	21F13	-	27F39
5561/FG-104	21F13	25F63	27F39	27F53
5563A	25F62	25F63	27F45	27F53
GL5632	21F01	-	27F37	-
5664	21F01	25F59	27F37	27F49
5683	21F01	25F59	27F37	27F49
5684	21F01	-	27F37	-
5690	21F10	25F69	27F55	27F41
GL5720/FG-33	21F37	21F13	-	27F39
5726	-	21F21	-	-
GL5728/FG-67	21F37	21F13	-	27F39
5796	21F01	-	27F37	-
GL5830/FG-41	25F64	-	27F53	-
5896	21F01	-	27F37	27F49
5995	-	21F21	-	-
6004	21F03	25F60	27F38	27F50
GL6011	21F01	-	27F37	-
GL6012	21F10	25F69	27F55	27F56
6014/C1K	21F01	25F59	27F37	27F49
6087	21F03	25F60	27F38	27F50
GL6130	21F10	25F69	27F55	27F56
6202	21F21	21F09	-	27F54
6203	21F08	21F10	-	27F40
6693	21F38	21F39	-	-
8008	-	21F38	27F45	27F53

SEE REVERSE SIDE FOR A QUICK REFERENCE REPLACEMENT CHART AND INDUSTRIAL TUBE FILAMENT RATINGS.

Tube - Filament Chart

INDUSTRIAL AND SPECIAL PURPOSE TUBES

THE CORRECT FILAMENT TRANSFORMER IS DETERMINED FROM THE FOLLOWING TUBE RATINGS BY:

1. LOCATING EACH TUBE NUMBER TO BE CONNECTED IN PARALLEL ACROSS THE FILAMENT TRANSFORMER.
2. RECORD EACH TUBE FILAMENT RATING. (NOTE THAT EACH TUBE USED MUST HAVE THE SAME FILAMENT VOLTAGE)
3. ADD ALL FILAMENT CURRENTS — THIS WILL BE THE FINAL CURRENT RATING NECESSARY FOR THE TRANSFORMER.
4. LOCATE THE CORRECT FILAMENT TRANSFORMER IN THE CHART TO THE RIGHT USING THE FINAL CURRENT RATING AND THE VOLTAGE NOTED IN STEP 2.

TOTAL FILAMENT CURRENT	CORRECT FILAMENT TRANSFORMER FOR PARALLEL OPERATED TUBES — FILAMENT VOLTAGE					
	2.5V	5.0V	6.3V	7.5V	10V	12.6V
1.2A	21F34	-	21F09	21F44	-	26F67
3A	27F36	21F03	21F10	21F15	21F61	21F50
4A	21F00	25F60	21F41	21F15	21F61	-
5A	21F00	21F37	21F11	25F71	21F18	21F52
6A	-	21F37	21F11	21F16	25F74	21F52
8A	21F32	21F04	-	21F16	21F29	-
10A	21F32	21F13	21F12	21F17	25F75	-

The basic group shown in the chart above will fill most of the filament transformer requirements in use today. Refer to the following pages for a wide variety of mounting types, voltage and current ratings and RMS test voltages.

MULTIPLE SECONDARY VOLTAGES

A combination of 2 or more different filament voltages are required for many types of electronic equipment. The possible combinations, of course, are numerous; therefore no attempt has been made to chart or recommend these for specific applications. No difficulty will be found in choosing the correct transformer from the listing on the last page of the filament transformer section.

Tube	Filament Volts	Amps
2-01C	5.3	.4
2-25A	6.3	3.0
2-50A	5	4.0
2-150D	5	13
2-240A	7.5	12
2-2000A	10	25
2A4G	2.5	2.5
2B22	6.3	.75
2B23	6.3	.3
2C39	6.3	.75
2C39A	6.3	1.0
2C39B	6.3	1.025
2C40	6.3	.75
2C42	6.3	.9
2C43	6.3	.9
2C46	6.3	.75
2C51	6.3	.3
2E22	6.3	1.5
2E24	6.3	.65
2E25/A	6.0	.7
2E26	6.3	.8
2E30	6.0	.65
2K26	6.3	.44
2X2A	2.5	1.75
3A4	2.8	.1
	1.4	.2
3A5	1.4	.27
	2.8	.11
3B4	2.5	.165
	1.25	.33
3B22	2.5	6.0
3C22	6.3	2
3C24	6.3	3.0
3D21A	6.3	1.7
	12.6	.85
3E29	6.3	2.25
	12.6	1.125
3W5000A3	7.5	51.0
3W5000F3	7.5	51.0
3X2500A3	7.5	51.0
3X2500F3	7.5	51.0
3X3000F1	7.5	51.0
4-65A	6.0	3.5
4-125A/ 4D21	5.0	6.5
4-250A	5.0	14.5
4-250A/ 5D22	5.0	14.5
4-400A	5.0	14.5
4-1000A	7.5	21.0
4C21	10.0	3.25
4D21	5.0	6.5
4D32	6.3	3.75
4E27A/ 5-125B	5.0	7.5
4PR60A	26	2.25
4X150A	6.0	2.6
4X150D	26.5	.57
4X150G	2.5	6.25
4X500A	5.0	13.5
4W20, 000A	10	30
5C24	10	5.2
5D23	5.0	14
6AC7W	6.3	.45
6AG7Y	6.3	.65
6AH6WA	6.3	.45
6AJ5	6.3	.175
6AN5	6.3	.5

Tube	Filament Volts	Amps
6AR6	6.3	1.2
6AS6	6.3	.175
6AS7A	6.3	2.5
6AS7G	6.3	2.5
6AU6WA	6.3	.3
6C21	8.2	17.0
6CA7	6.3	1.5
6D4	6.3	.25
6D22	5.0	28.5
6F4	6.3	.225
6J4/WA	6.3	.4
6L6WGB	6.3	.9
6SL7WGT	6.3	.3
6SN7WGT	6.3	.6
6SU7GTY	6.3	.3
6V6GTY	6.3	.45
7C29	10.5	28
7D21	6.3	30
12A6	12.6	.15
12AT7WA	6.3	.3
	12.6	.15
25T	6.3	3.0
GZ30	5.0	2
GZ32	5.0	2.3
EL33	6.3	.9
EL34/ 6CA7	6.3	1.5
EM34/ 6CD7	6.3	.2
35T/TG	5.0	.4
EZ35	6.3	.6
EF37A	6.3	.2
EL37	6.3	1.4
RK38	5.0	8
ECC40	6.3	.6
EF40	6.3	.2
EZ40	6.3	.6
EF41	6.3	.2
EL41	6.3	.7
EZ41	6.3	.4
WL41	5.0	20
RK59	6.3	1.0
EFP60	6.3	.37
HY-69	6.0	1.6
RK72	2.5	3
RK73	2.5	4.25
75TL/TH	5.0	6.25
EABC80	6.3	.45
EBF80	6.3	.3
ECL80	6.3	.3
EM80/ 6BR5	6.3	.3
EZ80/ 6V4	6.3	.6
E81L/ 6686	6.3	.375
ECC81/ 12AT7	6.3	.3
	12.6	.15
ECH81	6.3	.3
EM81/ 6DA5	6.3	.3
EZ81/ 6CA4	6.3	1.0
ECC82/ 12AV7	6.3	.3
	12.6	.15

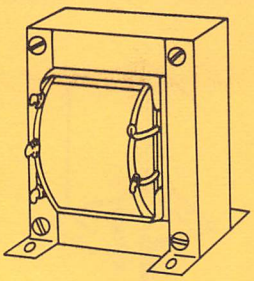
Tube	Filament Volts	Amps
ECL82/ 6BN8	6.3	.78
ECC83/ 12AX7	6.3	.3
	12.6	.15
EL84/ 6BQ5	6.3	.75
EM84/ 6FG6	6.3	.27
ECC85/ 6AZ8	6.3	.45
EL85	6.3	.2
ECL86	6.3	.7
EF86/ 6267	6.3	.2
E88CC/ 6922	6.3	.3
ECC88/ 6DJ8	6.3	.33
PC88	7.0	.3
EBF89/ 6DC8	6.3	.3
EF89/ 6DA6	6.3	.2
EL90	6.3	.45
EZ90/ 6X4	6.3	.6
EAA91	6.3	.3
EB91	6.3	.3
EC92	6.3	.150
100TH	5.0	6.3
100TL	5.0	6.3
102A	20	19
103	10	11.5
108	13	12.5
115	10	11.5
120	13	12.5
121	10	11.5
141	5.5	6.5
146	10	3.25
152TH	5.0	12.5
	10	6.25
152TL	5.0	12.5
	10	6.25
FG-166	2.5	100
E180F/ 6688	6.3	.3
HF200	10	4
HF201A	10	4
203A	10	3.25
204A	11	3.85
211	10	3.25
RK212	2.5	30
RK215	2.5	30
242C	10	3.25
250TH	5.0	10.5
250TL	5.0	10.5
251A	10	16
AX260	5.0	25
FP265	10	5.2
GL266B	5.0	30
279A	10	21
FP285	10	3.25
HF300	11	4
304TH	5	25
	10	12.5
304TL	5	25
	10	12.5
310A	10	.315

Tube	Filament Volts	Amps
FP400	4	2.25
GL411	10	14.5
WL414	5	20
450TH	7.5	12
450TL	7.5	12
5g2/ 3-200A3	10	5
501R	7.5	24
502	7.5	24
504R	7.5	24
GL590	10	5
592/ 3-200A3	10	5
750TL	7.5	21
GL800	7.5	3.25
801A	7.5	1.25
802	6.3	.9
803	10	5
805	10	3.25
806	5	10
807	6.3	.9
809	6.3	2.5
810	10	4.5
811A	6.3	4
812A	6.3	4
813	10	5
814	10	3.25
815	6.3	1.6
	12.6	.8
825	10	3.25
826	7.5	4
827R	7.5	25
828	10	3.25
829B	6.3	2.25
	12.6	1.125
830B	10	2
832A	6.3	1.6
	12.6	.8
833A	10	10
GL835A	10	2.25
837	12.6	.7
838	10	3.25
GL842	7.5	1.25
GL843	2.5	2.5
845	10	3.25
GL849	11	5
849A	11	7.7
849H	10	11.5
851	11	15.5
857B	5.0	30
954	6.3	.15
955	6.3	.15
956	6.3	.15
1000T	7.5	17
CK1005	6.3	.1
1163	2.25	17
1164	2.5	25
HY1269	6.3	3.2
1500T	7.5	24
1603	6.3	.03
1612	6.3	.3
1613	6.3	.7
1614	6.3	.9
1619	2.5	2
1620	6.3	.3
1621	6.3	.7
1622	6.3	.9
1623	6.3	2.5
1624	2.5	2.0

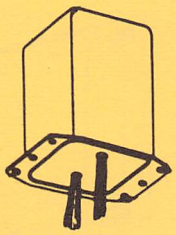
Tube	Filament Volts	Amps
1625	12.6	.45
1626	12.6	.25
1633	25	.15
1635	6.3	.6
1701	2.5	5
GL1851	6.3	.45
2052	6.3	.6
5513	6.3	30
5514	7.5	3
5516	6.0	.7
GL5518	6.3	2.5
5556	4.5	1.1
5588	6.3	2.5
GL5610	6.3	.15
GL5625	20	24.5
5636	6.3	.15
GL5648	6.3	1.1
5654	6.3	.175
5654/ 6AK5W	6.3	.175
5656	6.3	.4
GL5662	6.3	.15
5663	6.3	.15
5670/WL	6.3	.35
5675	6.3	.135
5686	6.3	.35
5687	6.3	.9
	12.6	.45
5691	6.3	.6
5692	6.3	.6
5693	6.3	.3
5694	6.3	.16
5696	6.3	.15
5702	6.3	.2
5703	6.3	.2
5718	6.3	.15
5719	6.3	.15
5725/ 6AS6W	6.3	.175
5726/ 6AL5W	6.3	.3
5727/ 2D21W	6.3	.6
5734	6.3	.15
5736	6.0	60
5740/ FP54	2.5	.09
5741/ FP85A	10	5
5744W	6.3	.2
5749	6.3	.2
5749/ 6BA6W	6.3	.3
5750	6.3	.3
5751	6.3	.35
	12.6	.175
5755	6.3	.36
	12.6	.18
5762/ 7C24	12.6	29
5763	6	.75
5812	6.0	.65
5814	6.3	.35
5814A/ WA	6.3	.35
	12.6	.175
5820	6.3	.6
5824	25	.3
5840	6.3	.15

Tube	Filament Volts	Amps
5844	6.3	.3
5866	6.3	5.4
5868	10	10
5870	5.0	14
5876	6.3	.135
5879	6.3	.15
5881	6.3	.9
5893	6.3	.33
5894	6.3	1.8
	12.6	.9
5899	6.3	.15
5902	6.3	.45
5915	6.3	.3
5923	12.6	33
5924	12.6	33
5932	6.3	.9
5933	6.3	.9
5963	6.3	.3
	12.6	.15
5964	6.3	.45
5965	6.3	.45
	12.6	.225
6005	6.3	.45
6017	10	17
6019	6.3	24
6046	25	.3
6072	6.3	.35
	12.6	.175
6079	10	9.7
6080	6.3	2.5
6083	12.6	1.35
6084	6.3	.3
6085	6.3	.6
	12.6	.3
6100/ 6C4WA	6.3	.45
6101	6.3	.45
6110	6.3	.15
6111	6.3	.3
6112	6.3	.3
6112A	6.3	.3
6134	6.3	.45
6135	6.3	.175
6136	6.3	.3
6137	6.3	.3
6146	6.3	1.25
6155	5	6.5
6156	5	14.5
6159	26.5	.3
6161	6.3	3.4
6173	6.3	.135
6182	6.3	15
6183	6.3	24
6186/ 6AG5WA	6.3	.3
6189/ 12AU7WA	6.3	.3
	12.6	.15
6197	6.3	.65
6201	6.3	.3
	12.6	.15
6211	6.3	.3
	12.6	.15
6216	6.3	1.2
6227	6.3	.75
6247	6.3	.2
6251	5.5	19
6252	6.3	1.3
	12.6	.65

Tube	Filament Volts	Amps
6263	6.3	.28
6265	6.3	.175
6283	6.3	3.6
6299	6.3	.35
6339	6.3	1.5
6350	6.3	.6
	12.6	.3
6360	12.6	.41
	6.3	.82
6386	6.3	.35
6463	6.3	.6
	12.6	.3
6508	5	12.5
6524	6.3	1.25
6663/ 6AL5	6.3	.3
6669/ 6AQ5A	6.3	.45
6677/ 6CL6	6.3	.65
6678/ 6U8A	6.3	.45
6680/ 12AU7	6.3	.3
	12.6	.15
6681/ 12AX7	6.3	.3
	12.6	.15
6786	5.0	.20
6792	6.3	.45
6793	5	11.5
6807	2.5	21
6849	6.3	.6
6894	5	10
6895	5	10
7025	6.3	.3
	12.6	.15
7044	6.3	.9
	12.6	.45
7054	12	.275
7055	12	.155
7056	12	.15
7058	12	.15
7059	12	.195
7060	12	.28
7061	12	.21
7094	6.3	3.2
7198	6.3	.6
7204/ 4-250F	26.5	.58
7212	6.3	1.25
7262	6.3	.095
7360	6.3	.35
7551	12	.36
7554	6.3	.225
7558	6.3	.8
8005	10	3.25
8013A	2.5	5
8020 (100R)	5	6.5
8020	5	6
9001	6.3	.15
9002	6.3	.15
9003	6.3	.15
9004	6.3	.15
9005	6.3	.165
9006	9.3	.15



LHV (Lugs) CAV (Leads)



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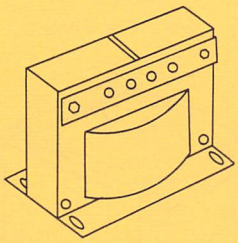

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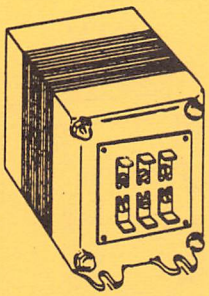
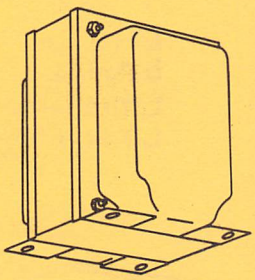
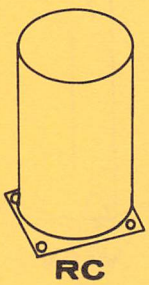


PUV



GGV



RC

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Filament Transformers with Single Secondary

50/60 CYCLES

Part No.	Primary Voltage	Secondary Volts	Secondary Amps.	Test Volts RMS (Sec)	✪ Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
21F34	117	2.5	1.5	2,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.7
21F35	117	2.5CT	2.5	2,500	BAH	2 3/8	1 5/8	2 7/8	1 1/2	.7
25F94	107/117	2.5CT	2.5	2,500	TAV	2 3/8 x 1 1/2	2 11/16	2 3/4	2 1/4	1.5
21F120	117	2.5CT	3	1,500	BAH	2 3/8	1 5/8	2 7/8	1 3/4	.6
27F36	105/115/125	2.5	3	2,500	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16	1.5
21F00	117	2.5CT	5	2,500	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1
21F31	117	2.5CT	5	7,500	BAV	2 13/16	2 11/16	3 5/16	2 1/4	1.5
27F46	115/230	2.5CT	5.25	3,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	2
27F24	115/230	2.5CT	5.25	3,500	YY	1 13/16 x 1 11/16	3 19/64	2.521	2.381	2
25F56	115/230	2.5CT	5.25	3,500	TTV	2 11/16 x 1 3/4	3 1/8	3	2 1/2	2
21F92	117	2.5CT	6	1,500	BAH	2 13/16	2	3 5/16	1 7/8	1
21F102	107/117	2.5CT	6	2,500	GGV	2 x 1 7/16	3 3/16	2 5/8	2 3/8	2.2
21F93	117	2.5CT	10	1,500	BAH	3 1/8	2 5/16	3 3/4	2 1/8	1.5
21F01	117	2.5CT	10	2,500	BAV	2 13/16	2 11/16	3 5/16	2	1.5
21F103	107/117	2.5CT	10	7,500	BAV	3 1/8	3 1/8	3 5/8	2 1/2	2.5
21F32	107/117	2.5CT	10	2,500	GGV	2 x 1 3/4	3 1/8	2 5/8	2 5/8	2.5
27F37	105/115/125	2.5	10	2,500	GB	2 1/8 x 1 3/4	2 13/16	2 3/4	2 3/8	2.5
25F57	115/230	2.5CT	10	2,500	TTV	3 1/8 x 2	3 1/2	2 7/8	3 1/2	3
27F47	115/230	2.5CT	10	5,000	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	3
27F25	115/230	2.5CT	10	5,000	YY	1 13/16 x 1 11/16	3 19/64	2.521	2.381	3
25F79	105/115/ 220/230	2.5CT	10	6,000	RC-112	2 11/16 x 2 11/16	4 1/8	3 7/16	3 7/16	5
21F02P	117	2.5CT	10	7,500	WAV	2 3/8 x 2 3/4	4 1/4	3	3 3/8	8.5
27F48	115/230	2.5CT	10	9,000	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	4
27F26	115/230	2.5CT	10	9,000	YY	2 3/8 x 2 1/8	4.242	3.245	2.979	4
21F02	117	2.5CT	10	10,000	CAV	2 x 1 3/4	3 1/8	2 1/2	2 1/4	2.75
21F58	117	2.5CT	10	10,000	LHV	2 1/4 x 1 7/8	3 1/2	2 7/8	2 1/2	2.5
27F44	105/115/125	2.5	10	10,000	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	4.75
25F80	105/115/210/ 220/230	2.5CT	10	11,000	RC-125	3 x 3	4 1/2	3 3/4	3 3/4	6.5
27F88	105/115 210/220	2.5CT	12##	4,000	GB	2 1/8 x 1 3/4	2 13/16	2 3/4	2 3/8	2.5
27F89	105/115/ 210/220	2.5CT	12##	10,000	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	4.75
27F49	115/230	2.5CT	15	9,000	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	5.25
27F27	115/230	2.5CT	15	9,000	YY	2 5/8 x 2 3/8	4 11/16	3.667	3.292	5.25
25F59	115/230	2.5CT	15	9,000	TTV	3 7/8 x 2 3/4	4 1/4	3 5/8	4 7/16	6
21F121	117	2.5	16	500	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.7
27F63	105/115 210/220	2.5	26#	10,000	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	8
21F122	117	2.5	60	1,500	CTH	4 1/16 x 2 1/8	4 1/8	4 7/8	2 1/2	5
21F123	117	5.0CT	2.5	7,500	BAH	3 9/16	2 1/2	4	2 1/4	2
21F94	117	5.0CT	3	1,500	BAH	2 13/16	2	3 5/16	2	1.3
21F03	117	5.0CT	3	2,500	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1
21F104	117	5.0CT	3	2,500	LHV	2 x 1 5/8	3 1/8	2 1/2	2 1/2	1.8
27F38	105/115/125	5.0	3	2,500	FB	1 11/16 x 1 7/16	2 1/2	2 1/16	2 5/16	1.75
21F36	117	5.0CT	3	5,000	GGV	2 x 1 1/2	3 1/8	2 5/8	2 1/2	2.5
21F05	117	5.0CT	3	10,000	CAV	2 x 1 3/4	3 1/8	2 1/4	2 1/2	2.5
27F65	105/115 210/220	5.0	3.8	2,000	FB	1 11/16 x 1 7/16	2 1/2	2 5/16	2 1/16	1.75
27F50	115/230	5.0CT	4	2,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.25
27F28	115/230	5.0CT	4	2,500	YY	1 13/16 x 1 11/16	3 19/64	2.521	2.381	2.25
25F60	115/230	5.0CT	4	2,500	TTV	1 3/4 x 2 11/16	3 1/8	2 1/2	3	2.25
21F60	117	5.0CT	6	1,500	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.7
21F105	107/117	5.0CT	6	2,000	BAV	2 11/16	2 5/8	3 5/16	2 1/4	2
21F37	117	5.0CT	6	2,500	LHV	2 x 2	3 1/8	2 1/2	2 1/2	2.25
25F39	125/135/230	5.0CT	7.5	15,000	PUV	2 3/16 x 5 5/8	5 3/16	4 1/16	6 1/8	9
21F63	117	5.0CT	8	2,500	BAH	3 9/16	2 9/16	4	2 1/4	2.5
21F04	117	5.0CT	8	2,500	CAV	2 x 1 3/4	3 1/8	2 1/4	2 1/2	2.5
21F13	117	5.0CT	10	2,500	CAV	2 x 2 3/8	3 1/8	2 7/8	2 1/2	3
27F51	115/230	5.0CT	10	2,500	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	3.5
27F39	105/115/125	5.0	10	2,500	HB	2 19/64 x 1 55/64	3 3/16	2 5/8	3 1/16	3.3
27F29	115/230	5.0CT	10	2,500	YY	2 x 1.875	3.742	2.861	2.711	3.5
25F61	115/230	5.0CT	10	2,500	TTV	2 x 3 1/8	3 1/2	3 1/2	2 7/8	3.5
27F52	115/230	5.0CT	10	8,000	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	6
27F30	115/230	5.0CT	10	8,000	YY	2 5/8 x 2 3/8	4 11/16	3.667	3 19/64	6

Industrial Rating – Use 10 A. for Military Rating
Industrial Rating – Use 20 A. for Military Rating
* Industrial Rating - Use 3A for Military Rating

CONTINUED NEXT PAGE

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Filament

Filament Transformers with Single Secondary Continued

Part No.	Primary Voltage	Secondary Volts	Secondary Amps.	Test Volts RMS (Sec)	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27F45	105/115/125	5.0	10	10,000	KB	3 x 2 7/16	4 5/16	3 3/8	3 15/16	7
25F62	115/230	5.0CT	10	10,000	TTV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6
21F124	230	5.0CT	10	11,000	LTH	3 3/4 x 2 1/8	3 7/8	4 1/2	3 1/4	6
21F125	117	5.0CT	10	40,000	LTV-1	2 7/8 x 5 9/16	7	6 5/8	3 5/8	7.2
27F66	105/117 210/220	5.0	12##	10,000	KB	3 x 2 7/16	4 5/16	3 3/8	3 15/16	7
21F06	117	5.0CT	13	2,500	CAV	2 x 2	3 1/8	2 1/2	2 1/2	3.25
21F38	107/117	5.0CT	14	10,000	KTV	2 3/4 x 6	5 1/8	4 5/8	8 1/2	12.5
26F66	117	5.0CT	15	2,500	LAV	2 x 2 1/4	3 1/8	2 1/2	2 7/8	3.5
21F20	117	5.0CT	15	10,000	CAV	2 1/2 x 3	4 5/8	3 3/4	3 1/4	6.75
21F126	220	5.0CT	15	10,000	CAV	2 1/2 x 3	4 5/8	3 3/4	3 1/4	6.75
21F20P	115	5.0CT	15	10,000	WAV	3 3/4 x 4 5/8	5 3/4	4 5/8	5 3/8	13
25F63	115/230	5.0CT	20	2,500	TTV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6.5
27F53	115/230	5.0CT	20	10,000	MA	3 x 3 11/16	6	4	4 11/16	13
27F31	115/230	5.0CT	20	10,000	YY	3 3/8 x 3	6 1/16	5 21/64	4 51/64	13
25F64	115/230	5.0CT	20	10,000	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	13
21F07	117	5.0CT	21	2,500	CAV	2 1/4 x 2 1/2	3 7/8	2 3/8	2 5/8	5
21F39	107/117	5.0CT	22	10,000	KTV	2 3/4 x 6	5 1/8	4 5/8	8 1/2	13.5
27F67	105/115 210/220	5.0	25#	10,000	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10.5
25F81	105/115 210/220/230	5.0	25	11,000	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11
21F07A	117	5.0CT	29	2,500	CAV	2 1/2 x 2 1/2	3 7/8	3 1/8	3 1/8	5.5
21F33	110/115/120	5.0CT	30	2,500	GTV	2 1/2 x 3 1/8	3 7/8	3 3/16	4 7/8	6.2
25F65	115/230	5.0CT	30	2,500	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	10.5
25F66	115/230	5.0CT	30	2,500	TSV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	10.5
21F128	230	5.0CT	30	11,000	LTH	3 3/4 x 3	3 7/8	4 1/2	4	9
27F68	105/115 210/220	5.0	30#	21,000	HA	4 1/16 x 3 5/16	6 13/16	5 1/16	4 5/16	15
27F69	105/115 210/220	5.0	75§	21,000	YY	5 3/8 x 4 1/8	7 3/4	6 1/2	5 1/2	34
21F129	117	5.0	100	1,500	LAH	4 15/16 x 3 3/8	4 5/16	5 3/4	4 3/4	13
21F64	117	5.2CT	13	1,500	GGV	2 1/4 x 2 1/4	3 1/2	3	3 3/8	4.25
21F65	117	5.2CT	13	1,500	LAV	2 1/4 x 2 1/2	3 7/16	2 13/16	2 15/16	4
27F110	105/115/125	5.25CT	14	2,500	YY	2 3/4 x 2 1/2	5	3 15/16	3 3/8	4
21F67	117	5.2CT	24	1,500	LAV	2 1/2 x 3 1/16	3 13/16	3 3/16	3 7/16	6.75
21F73	117†	6.0CT/ 6.3CT	6	2,000	BAH	3 9/16	2 9/16	4	2 1/4	2.5
21F75	117†	6.0CT/ 6.3CT	11	3,000	LAV	2 1/4 x 2 7/16	3 1/2	2 7/8	2 15/16	4
21F109	117†	6.0CT 6.5CT/ 7.0CT	13 A.	2,000	LHV	2 1/4 x 2 11/16	3 3/8	2 13/16	3 3/8	4.5
MI-T200	28 @ 400 cps	6.3	.06	100	RAV	–	13/32	5/16 Dia.		.1oz
27F87	105/115	6.3CT	.3	500	Molded	–	3/4	1	23/32	.05
27F71	115	6.3CT	.38††	1,500	AH	1 1/4	1 3/4	1 5/16	1 5/16	.5
27F01	115	6.3	.6	1,500	AJ-2	1 5/8	2 3/8	1 5/8	1 5/8	.75
21F21	117	6.3	.6	2,500	BAH	2	1 3/8	2 3/8	1 1/4	.75
25F19	117	6.3	.6	3,500	TAV	1 1/2 x 2 3/8	2 7/8	2 11/16	2 1/4	2
27F72	115	6.3CT	.75*	1,500	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.75
27F82	115 @ 400 cps	6.3	.75*	500	RC-25	1 1/8	1 7/16	15/16 Dia.		.1
21F08	117	6.3CT	1	2,500	BAV	2	2	2 3/8	1 1/2	.7
21F131	220	6.3CT	1	2,500	BAV	2	2	2 3/8	1 1/2	.7
27F14	115 @ 400 cps	6.3CT	1	1,500	AH	1 1/4	1 3/4	1 5/16	1 5/16	.5
21F09	117	6.3CT	1.2	2,500	BAH	2 3/8	1 5/8	1 5/8	2 7/8	1
25F77	117	6.3CT	1.2	2,500	RC	1 1/2 x 1 1/2	2 1/2	1 13/16	1 13/16	1
26F60	117	6.3	1.2	5,000	BAH	2 13/16	2	3 1/4	2	1.25
26F65	6.3	6.3	1.2	5,000	BAH	2 13/16	2	3 1/4	2	1.25
27F54	115/230	6.3CT	1.5	2,500	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	1
27F32	115/230	6.3CT	1.5	2,500	YY	1 9/16 x 1 3/8	2 11/16	2.241	2.101	1
25F67	115/230	6.3CT	1.5	2,500	TTV	1 1/2 x 2 3/8	2 3/4	2 1/4	2 11/16	1
21F69	117	6.3/5	2	5,000	BAH	2 13/16	2	3 5/16	2	1.25
27F121	115 @ 400 cps	6.3CT	2	1,500	ZZ	1 1/8 x 7/8	2 1/16	2 1/8	1 5/8	.33
27F33	105/115/125	6.3CT	2	2,000	EA	1 3/8 x 1 1/4	2 3/4	1 15/16	1 13/16	1
27F40	105/115/125	6.3	2	2,500	FB	1 11/16 x 1 7/16	2 1/2	2 1/16	2 5/16	1.75
27F35	105/115/125 400 cps	6.3CT	2	2,000	AJ-1	1 5/8	2 3/8	1 5/8	1 5/8	.75
27F73	115/230	6.3CT	2.5‡‡	2,500	FB	1 11/16 x 1 7/16	2 1/2	2 1/16	2 5/16	1.75
21F10	117	6.3CT	3	2,500	BAH	2 13/16	2	3 1/4	2 1/8	1.25
21F40	117	6.3CT	3	2,500	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1
21F108	107/117	6.3	3	7,000	BAV	3 1/8	3	3 1/2	2 5/8	2

Industrial Rating – Use 10 Amps. for Military Rating
* Industrial Rating – Use .6 Amps. for Military Rating
§ Industrial Rating – Use 60 Amps. for Military Rating
† Secondary Voltage varied by means of a Primary Tap
Industrial Rating – Use 20 Amps. for Military Rating
‡ Exact Replacement for Heathkit Scope Model OP-1
‡‡ Industrial Rating – Use 2 Amps. for Military Rating
†† Industrial Rating – Use .3 Amps. for Military Rating

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

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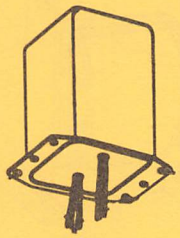
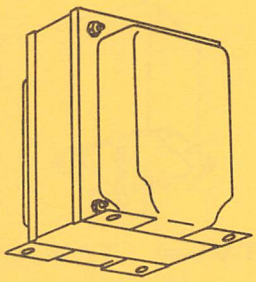
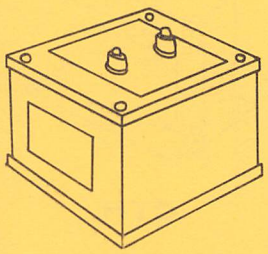


TAV



GGV

GTV (WITH LUGS)



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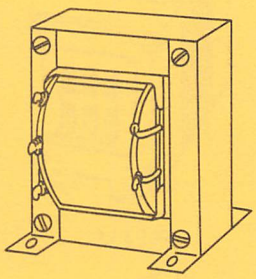
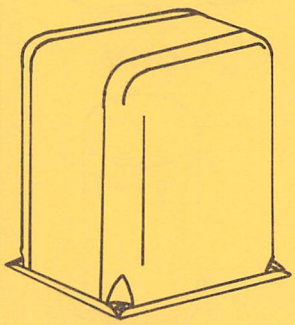


LHV lugs
LAH leads
LTH terminal board
LTH-1 high voltage construction

FOR MTG. TYPES NOT SHOWN HERE SEE PAGE 144



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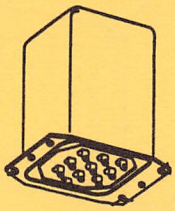

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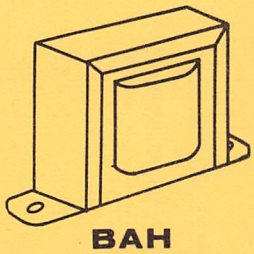
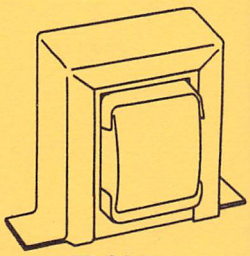


BAH



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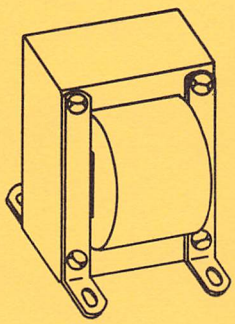
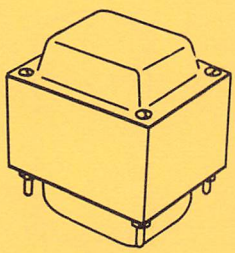


LAV CAV



AGF

RC-25

Filament Transformers with Single Secondary Continued

Part No.	Primary Voltage	Secondary Volts	Secondary Amps	Test Volts RMS (Sec)	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
21F107	117	6.3CT	3	2,500	LHV	2 x 1 3/4	3 1/8	2 1/2	2 1/2	2
27F55	115/230	6.3CT	3	2,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	2
27F102	105/115/125 @ 400 cps	6.3Ct	3	2,500	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16	1.5
27F90	115/230	6.3CT	3	2,500	YY	1 13/16 x 1 11/16	3 3/64	2.521	2.381	2
27F105	105/115/125 @ 400 cps	6.3CT	3	2,500	YY	1 5/16 x 1 1/16	2 13/64	1 29/32	1 51/64	.75
25F68	115/230	6.3CT	3	2,500	TTV	1 3/4 x 2 11/16	3 1/8	2 1/2	3	2
27F59	105/115/125 @ 400 cps	6.3CT	3	2,500	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.75
27F83	105/115 @ 400 cps	6.3CT	3.5	2,500	Molded	1 1/8 x 1 5/32	2	1 21/32	1 25/32	.3
27F34	105/115/125	6.3CT	3.6	2,500	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	1.75
21F71	117	6.3	4	1,500	BAH	2 13/16	2	3 5/16	2	1.25
21F70	117	6.3	4	5,000	BAH	3 9/16	2 9/16	4	2 1/4	2.1
21F41	107/117	6.3CT	4	2,500	GGV	2 x 1 11/16	3 1/8	2 5/8	2 5/8	2.75
25F78	105/115/ 210/220/230	6.3CT	4	2,000	RC-75	1 13/16 x 1 13/16	2 7/8	2 3/16	2 3/16	1.5
27F122	115 @ 400 cps	6.3CT	4	1,500	ZZ	7/8 x 1 1/4	2 1/16	2 1/8	1 3/4	.45
21F135	117	6.3	4.5	1,500	BAV	2 13/16	2 11/16	3 5/16	2 1/8	.6
27F41	105/115/125	6.3	5	2,500	GB	2 1/8 x 1 3/4	2 13/16	2 3/8	2 3/4	2.75
27F120	105/115/125 @ 400 cps	6.3	5	2,500	FB	1 11/16 x 1 7/16	2 1/2	2 5/16	2 1/16	1.5
27F56	115/230	6.3CT	5.5	2,500	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8	4
27F02	105/115/125	6.3CT	5.5	2,000	HB	2 19/64 x 1 55/64	3 3/16	3 1/16	2 5/8	4.5
27F84	105/115 @ 400 cps	6.3CT	5.5	2,500	Molded	1 1/8 x 1 9/32	2 1/4	2	1 3/4	.44
27F91	115/230	6.3CT	5.5	2,500	YY	2 x 1 7/8	3.492	2.861	2.711	3
27F106	105/115/125 @ 400 cps	6.3CT	5.5	2,500	YY	1 5/16 x 1 1/16	2.424	1.901	1.791	1
27F60	105/115/125 @ 400 cps	6.3CT	5.5	2,500	EA	1 3/8 x 1 1/4	2 3/4	1 15/16	1 13/16	1
25F69	115/230	6.3CT	5.5	2,500	TTV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3
21F72	107/117	6.3CT	6	2,000	BAH	3 1/8	2 1/4	3 5/8	2 1/2	2
21F59	117	6.3CT	6	2,500	LHV	2 x 2	3 1/8	2 7/8	2 1/2	2.75
21F11	117	6.3CT	6	2,500	CAV	2 x 1 3/4	3 1/8	2 1/2	2 1/2	2.5
21F42	107/117	6.3CT	6	2,500	GGV	2 x 2 1/4	3 5/8	3	3 1/8	3.5
21F96	117	6.3CT	8	2,500	BAH	3 9/16	2 5/8	4	2 1/2	2.5
21F136	117	6.3CT	8	3,000	AGF	2 x 2 1/2	3 1/16	3	2 1/2	2.5
21F78	117†	6.3CT/ 7.5CT	8	3,000	LAV	2 1/4 x 2 5/16	3 1/2	2 7/8	2 13/16	3.65
27F05	105/115/125	6.3CT	8	2,500	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5
27F75	105/115/ 210/220	6.3CT	8‡‡‡	2,500	HB	2 19/64 x 1 55/64	3 3/16	3 1/16	2 5/8	4
21F12	117	6.3CT	10	2,500	CAV	2 x 2	3 1/8	2 1/2	2 1/2	3.25
21F43	107/117	6.3CT	10	2,500	LAV	2 1/4 x 2 3/16	3 1/2	2 7/8	2 3/4	3.5
21F74	117	6.3CT	10	2,500	GGV	2 1/4 x 2	3 1/2	3	3 1/8	3.8
27F57	115/230	6.3CT	10	2,500	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	5
27F42	105/115/125	6.3	10	2,500	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	5
27F61	105/115/125 @ 400 cps	6.3CT	10	2,500	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	1.75
25F70	115/230	6.3CT	10	2,500	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5
25F82	105/115/ 210/220/230	6.3/ 7.5	10	4,000	RC-25	3 x 3	4 1/2	3 3/4	3 3/4	6.5
27F76	105/115/ 210/220	6.3CT	12##	2,500	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8	4.5
27F92	115/230	6.3CT	10	2,500	YY	2 3/8 x 2 1/8	4.242	3.242	2.975	5
27F107	105/115/125 @ 400 cps	6.3CT	10	2,500	YY	1 9/16 x 1 3/8	2.930	2.241	2.101	1.75
27F85	105/115 @ 400 cps	6.3CT	10	2,500	Molded	1 11/16 x 1 13/32	2 5/16	2 1/8	2 5/16	.8
21F137	107/117	6.3	15	2,500	LAH	2 13/16 x 2 1/4	2 7/8	3 3/8	2 1/2	3
21F76	117	6.3CT	15	10,000	LAV	2 3/4 x 2 13/16	4 1/4	3 1/2	3 5/16	7.5
21F25	107/117	6.3CT	20	2,500	CAV	3 x 2 3/8	4 5/8	3	3 3/4	6.7
21F77	117	6.3CT	20	2,500	GGV	2 1/2 x 3	3 7/8	3 9/32	3 7/8	7
27F43	105/115/125	6.3	20	2,500	KB	3 x 2 7/16	4 5/16	3 3/8	3 15/16	8
27F62	105/115/125 @ 400 cps	6.3CT	20	2,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.5

† Secondary voltage varied by means of a Primary Tap

Industrial Rating – Use 10 Amps. for Military Rating

‡‡‡ Industrial Rating – Use 7 Amps. for Military Rating

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

CONTINUED NEXT PAGE

Filament

Filament Transformers with Single Secondary Continued

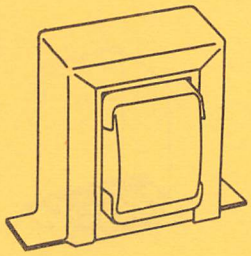
Part No.	Primary Voltage	Secondary Volts	Secondary Amps.	Test Volts RMS (Sec)	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27F108	105/115/125 @ 400 cps	6.3CT	20	2,500	YY	1 13/16 x 1 11/16	3.299	2.521	2.381	2.5
21F79	117	6.3CT/ 7.5CT	25	3,000	LHV	3 x 3 1/16	4 5/8	3 13/16	3 7/16	7.5
27F86	105/115 @ 400 cps	6.3CT	25	2,500	Molded	2 3/16 x 1 17/32	3 1/32	2 1/2	2 7/8	1.5
25F42	115/230	6.3CT	80	2,500	PUV	2 3/16 x 7	5 3/16	4 1/16	7 1/2	17
21F44	117	7.5CT	2.5	2,500	BHV	2 3/8	2 3/8	2 7/8	1 3/4	1
21F95	117	7.5CT	3	2,500	BAV	3 1/8	2 5/16	3 3/4	2 1/8	1.5
21F15	117	7.5CT	4	2,500	BAV	2 13/16	2 3/4	3 3/8	2 1/8	2
21F45	117	7.5CT	4	2,500	LHV	2 x 2 1/8	3 1/8	2 7/8	2 1/8	2.7
21F110	107/117	7.5CT	5	2,500	GGV	2 1/4 x 1 7/8	3 5/8	3	3	3.4
25F71	115/230	7.5CT	5	2,500	TTV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.25
21F78	117	7.5CT/ 6.3CT	8	3,000	LAV	2 1/4 x 2 5/16	3 1/2	2 7/8	2 13/16	3.65
21F16	117	7.5CT	8	2,500	CAV	2 x 2	3 1/8	2 3/4	2 1/2	3.25
21F62	117	7.5CT	8	2,500	LAV	2 1/2 x 2 3/8	3 7/8	3 1/8	2 7/8	4.7
21F46	107/117	7.5CT	8	2,500	GGV	2 1/2 x 2 3/16	3 7/8	3 1/4	3 3/8	4.7
25F82	105/115/ 210/220/230	7.5/ 6.3	10	4,000	RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
21F17	117	7.5CT	12	2,500	CAV	2 1/4 x 2 1/4	3 1/2	2 7/8	3 1/4	5
25F72	115/230	7.5CT	12	2,500	TTV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6.5
21F111	107/117	7.5CT	21	2,500	GGV	2 3/4 x 3	4 1/2	3 3/4	4	8
21F79	117	7.5CT/6.3CT	25	3,000	LHV	3 x 3 1/16	4 5/8	3 13/16	3 7/16	7.5
25F18	115/230	7.5CT	25	2,500	TTV	2 1/2 x 4 3/4	5 5/16	4 9/16	5 1/4	12
21F26	115/230	7.5CT	51	9,000	CTH	3 5/8 x 4 1/16	4 1/8	4 3/8	4 7/8	15
25F17	115/230	7.75CT	51	2,500	TSV	4 1/4 x 6	7 1/16	6 1/8	6 1/2	29
21F61	117	10.0CT	4	2,500	LHV	2 1/4 x 2 1/8	3 1/2	2 7/8	2 5/8	3.25
27F58	115/230	10.0CT	4	2,500	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8	3.25
27F93	115/230	10.0CT	4	2,500	YY	2 x 1 7/8	3.742	2.861	2.711	3.25
25F73	115/230	10.0CT	4	2,500	TTV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.25
21F18	117	10.0CT	5	2,500	CAV	2 x 1 3/4	3 1/8	2 1/4	2 1/2	2.25
21F47	107/117	10.0CT	5	2,500	GGV	2 1/2 x 1 15/16	3 7/8	3 1/4	3 1/8	4
25F74	115/230	10.0CT	6.5	2,500	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5
21F28	117	10.0CT	8	2,500	CAV	2 1/2 x 2 3/8	3 7/8	3 1/8	3 1/8	4.9
21F29	107/117	10.0CT	8	2,500	GGV	2 1/2 x 2 7/16	3 7/8	3 1/4	3 5/8	5.2
21F112	117	10.0CT	10	2,000	GGV	2 1/2 x 2 7/16	3 7/8	3 1/4	3 5/8	5.2
25F75	115/230	10.0CT	10	2,500	TTV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6.5
25F83	105/115/ 210/220/230	10.0	10	4,000	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11
21F48	107/117	10.0CT	12	7,500	KTV	2 3/4 x 6	5 1/8	4 1/4	8 1/2	14.7
27F77	105/115/ 210/220	10.0CT	13##	2,500	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	5
21F68	115	10CT/ 11CT/ 12CT	11	3,000	LAV	2 3/4 x 2 9/16	4 3/8	3 1/2	3 1/16	6.5
21F146	117	10.0	15	2,500	CAV	2 3/4 x 2 3/8	4 3/16	3 7/16	3	5
21F147	210/220/230	10.0CT	23.5	10,000	CTH	3 3/4 x 3 1/4	3 13/16	4 1/2	3 3/4	12
21F113	107/117	11.0CT	10	2,500	GGV	3 x 2 7/16	4 3/4	4	3 1/2	7.7
21F49	107/117	11.0CT	10	7,500	KTV	2 3/4 x 6	5 1/8	4 1/4	8 1/2	13
25F84	105/115/ 210/220/230	11/12/ 14	10	4,000	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11
27F78	105/115/ 210/220	11CT/ 12/14	14##	2,500	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10.5
27F06	105/115/125	12.6CT	.8	1,500	EA	1 3/8 x 1 1/4	2 3/4	1 15/16	1 13/16	1.25
26F70	6.3	12.6 or 6.3	1 1.2	5,000	BAH	2 13/16	2	3 1/4	2	1.25
26F67	117	12.6CT	2	2,500	BAH	2 13/16	2	3 1/4	2	1.25
27F07	105/115/125	12.6CT	2	2,000	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	2
27F15	105/115/125 @ 400 cps	12.6CT	2.5	2,000	EA	1 3/8 x 1 1/4	2 3/4	1 15/16	1 13/16	1.25
21F81	117	12.6CT	3	2,500	BAH	3 1/8	2 1/4	3 5/8	2 1/8	1.6
21F50	117	12.6CT	3	2,500	LAV	2 x 2 1/16	3	2 1/2	2 7/8	3.5
21F52	117	12.6 or 25.2	7 3.5	2,500	GGV	2 1/4 x 2 5/8	3 5/8	3	3 1/2	5
27F08	105/115/125	24.0CT	.8	1,500	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	2
26F68	117	24.0	1	2,500	BAH	2 13/16	2	3 1/4	2	1.5
21F84	117	24.0CT	1	2,500	BAH	2 13/16	2	3 1/4	2	1.5
21F98	117	24.0CT or 12	1 2	2,500	BAH	3 1/8	2 5/16	3 3/4	2 1/8	1.5

Industrial Rating – Use 10 Amps. for Military Rating

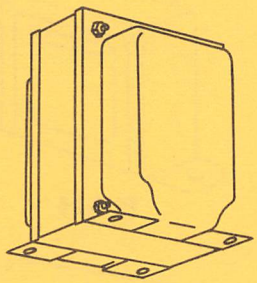
✪ 27 SERIES

CONTINUED NEXT PAGE

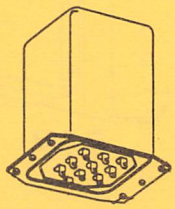
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



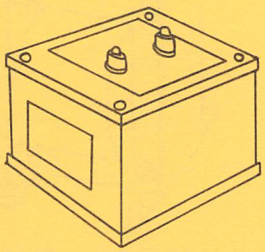
BHV BAV



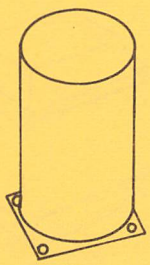
GGV



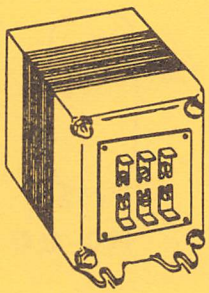
TTV



KTV



RC

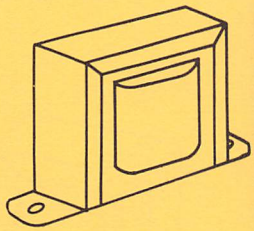


PUV

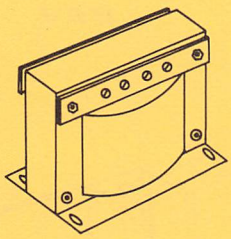
Filament Transformers with Single Secondary Continued

Part No.	Primary Voltage	Secondary Volts	Secondary Amps	Test Volts RMS (Sec)	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27F09	105/115/125	24.0CT	1.5	1,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	3.25
27F16	105/115/125 @ 400 cps	24.0CT	1.5	1,500	EA	1 3/8 x 1 1/4	2 3/4	1 15/16	1 13/16	1.25
21F97	117	24.0CT or 12	2 4	1,500	BAH	3 9/16	2 11/16	4	2 5/8	2.5
21F153	117	24.0CT	10	1,500	CAV	3 x 2 3/4	4 9/16	3 3/4	3 1/4	7.5
21F51	117	25.2	1	2,500	BAH	2 13/16	2	3 1/4	2	1.5
21F83	117	25.2CT	2	1,500	BAH	3 9/16	2 9/16	4	2 1/4	2.2
21F114	117	25.2CT	3	2,500	BAH	3 9/16	2 9/16	4	2 1/4	2.2
21F100	117 *	26.0CT	.04	2,500	BAH	1 3/4	1 1/4	2 1/8	1 3/4	.25
21F101	117 *	26.0CT	.25	2,500	BAH	2 3/8	1 11/16	2 7/8	1 5/8	.75
21F27	117	26.5CT	.6	7,500	BAH	2 13/16	2	3 1/4	2 1/8	1.6
21F82	117	26.8CT	1	1,500	BAH	2 13/16	2	3 1/4	2	1.6
21F99	117	36.0CT or 18	1.3 2.6	1,500	BAH	3 9/16	2 5/8	4	2 5/8	2.5

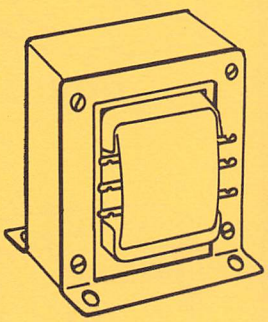
* Primary tapped for −6%, +6% and +12% Secondary Voltages



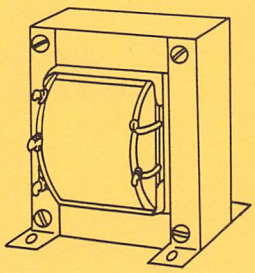
BAH



CTH



CAV



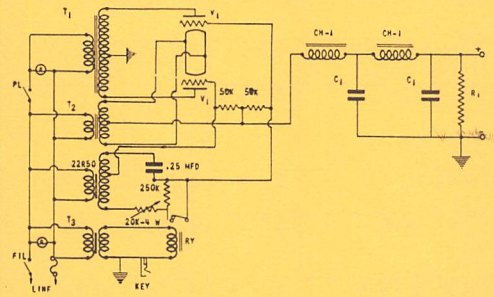
LHV (Lugs)

LAV (Leads)

Variable DC Power Supply Components

The variable power supplies shown in the circuit are ideal for amateur phone and CW transmitters as well as in laboratory applications where a variable source of D.C. voltage is desired without resorting to expensive methods of primary voltage control.

The circuit constants shown provide three ranges of D.C. variable voltage. A smooth variable control of output voltage is provided by controlling the amount of phase shift of the Thyratron grid voltage as supplied by phase shift of the Thyratron grid voltage as supplied by phase shift transformer 22R50. These highly desirable variable power supplies are designed around standard conventional components.



The circuit as shown is suitable for safe and click free CW transmission. With the elimination of the relay circuit a versatile piece of laboratory equipment can be constructed. The filter components have been selected to provide less than 1% ripple throughout the entire ranges of the supplies. When type 2050 thyratrons are used in the small power supply a slight circuit change is necessary. The screen of the thyratron must be connected to the cathode and the cathode to the center tap of the filament transformer. Phase shift bridge transformer 22R50 can be employed with other types of thyratron tubes and circuit applications where phase control is desired.

Part No.	Application	Mtg. Type	Mtg. Centers	Dimensions H.	Dimensions W. x D.	Wt. Lbs.
22R50	Special Phase Shift Transformer - Pri 117V	BAH	3 1/8	2 3/16	3 11/16 x 2	1.25

D.C. Voltage and Current		T_1	T_2	T_3	CH_1	V_1	C_1	R_1
50- 400 V	200 MA	21P89	21F10		20C54	2050	8 Mfd.	20 K
500-1500 V	500 MA	21P79	21F02	21F10	20C57	TT17 or FG17	4 Mfd.	50 K
1500-2500 V	500 MA	21P75	21F20	21F10	20C57	873	4 Mfd.	75 K

27 SERIES

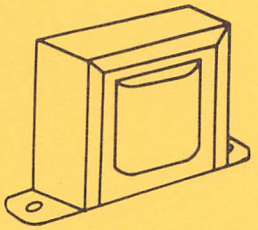
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Filament

Tube Checker Multi-Tapped Filament Transformer

PRIMARY 117 VOLTS 50/60 CYCLES

Part No.	Secondary Volts	Power In Watts	Primary Volts	Mtg Type	Mtg Centers	Dimensions H.	W.	D.
21F30	1.1/1.4/1.5/2.0/2.5/3.0/3.3/5.0/6.3/7.0/ 7.5/12/25/30/35/50/70/85/110/117	50	125/115/105	BHH	3 9/16	2 5/8	4	2

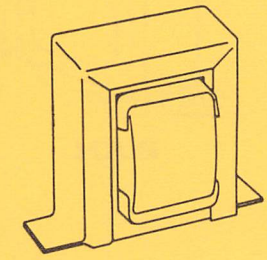


BAH (leads)
BHH (lugs)

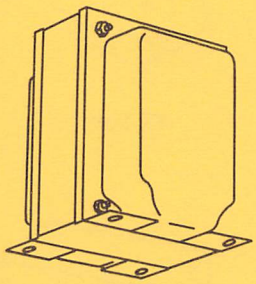
Filament Transformers with Multiple Secondary

50/60 CYCLES

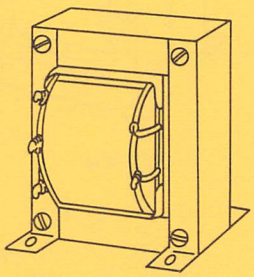
Part No.	Primary Voltage	Secondary Volts	Secondary Amps	Test Volts RMS (Sec.)	Mtg ⊕ Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
27F64	105/116/ 210/220	2.5 2.5 2.5	7.5 ▪ 7.5 ▪ 15 ##	10,000 10,000 10,000	NB	4 1/16 x 3 5/16	5 1/2	5 1/16	4 5/16	16.5
21F53	117	2.5CT 5.0CT	6 3	1,500 1,500	LAV	2 x 2	3	2 1/2	2 1/2	2.5
21F14	117	2.5 or 5 or 6.3	2.5	1,600	BAH	2 13/16	2	3 1/4	1 3/4	1.5
21F115	117	2.5CT 5.0CT 6.3CT	3.5 3 3	2,500 2,500 2,500	GGV	2 1/4 x 2	3 5/8	3	3 1/8	3.7
21F116	117	2.5 5.0CT 5.0 6.3CT	3 2 3 3	2,500 2,500 2,500 2,500	LHV	2 1/4 x 2 1/8	3 1/2	2 7/8	2 3/4	3.4
27F19	105/115/125	2.5CT 5.0CT 5.0	10 10 10	7,500 7,500 7,500	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8	4
21F85	117	2.5CT 10.0CT	10 10	7,500 1,500	LAV	2 3/4 x 2 9/16	4 3/4	3 1/2	3 1/16	6.2
21F22	117	5.0 7.5 or 6.3 or 5.0	3 6	2,500 2,500	GGV	2 x 2 1/2	3 7/8	3 1/4	3 1/4	5.5
21F54	117	5.0CT 5.0CT	3 3	2,500 2,500	BAV	2 13/16	2 3/4	3 1/4	2 1/2	1.7
27F101	105/115/125	5.0CT 5.0CT 5.0CT	3 3 6	5,000 5,000 5,000	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8	7
25F93	105/115/125	5.0CT 5.0CT 5.0CT	3 3 6	5,000 5,000 5,000	TTV	2 3/4 x 3 7/8	4 5/16	4 7/16	3 11/16	7
27F70	105/115/ 210/220	5.0 5.0 5.0	12 ## 12 ## 24 #	21,000 21,000 21,000	YY	5 3/8 x 4 3/8	7 3/4	6 1/2	5 1/2	28
27F132	105/115/125	5.25CT 5.25CT	14.5 14.5	2,500 2,500	YY	3 3/4 x 2 3/4	5	5	4	5
27F94	105/115/125	5.0 6.3CT	2 2.5	2,500 2,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	3.5
25F86	105/115/125	5.0 6.3CT	2 2.5	2,500 2,500	TTV	2 11/16 x 1 3/4	3 5/16	3	2 1/2	2.75
25F88	105/115/125	5.0 6.3CT	3 5	2,500 2,500	TTV	3 1/8 x 2	3 9/16	3 1/2	2 7/8	3.5



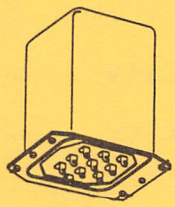
BAV



GGV



LAV (leads)
LHV (lugs)

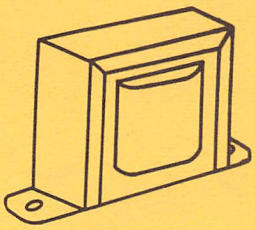


TTV

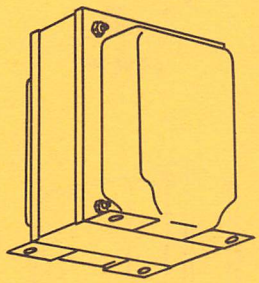
▪ Industrial Rating, use 5 Amps for Military Rating
Industrial Rating, use 10 Amps for Military Rating
Industrial Rating, use 20 Amps for Military Rating
⊕ 27 SERIES

CONTINUED NEXT PAGE

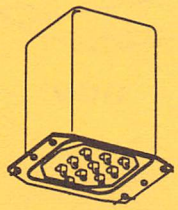
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



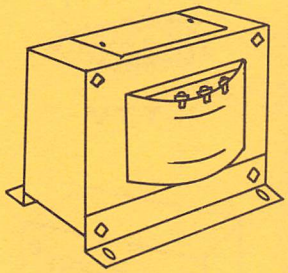
BAH



GGV

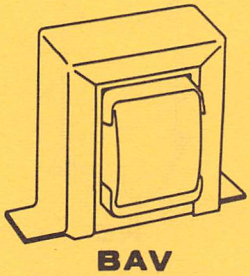


TTV



LHH

UTV



BAV

Filament Transformers with Multiple Secondary

Continued

Part No.	Primary Voltage	Secondary Volts	Secondary Amps.	Test Volts RMS (Sec)	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27F96	105/115/125	5.0 6.3CT	3 5	2,500 2,500	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8	4
27F13	105/115/125	5.0CT 6.3CT	3 5	2,500 2,500	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	4.9
26F61	117	5.0CT 6.3	3 3.6	2,500 2,500	BAH	3 9/16	2 1/2	4	2 1/8	2.5
21F55	117	5.0CT 6.3CT	3 6	2,500 2,500	GGV	2 1/2 x 2 1/16	3 7/8	3 1/4	3 1/4	4
21F23	117	5.0CT 6.3CT	6 6	2,500 2,500	GGV	2 1/2 x 2 1/4	3 7/8	3 1/4	3 3/8	4.8
21F56	107/117	5.0CT 6.3CT	6 6	1,765 1,765	GGV	2 1/2 x 2 3/16	3 7/8	3 1/4	3 3/8	4.8
21F86	115	5.0CT 6.3CT	3 8	2,500 2,500	GGV	2 1/4 x 2 1/8	3 1/2	3	3 1/4	4
21F117	107/117	5.0CT 6.3CT	4 3.6	2,500 2,500	GGV	2 1/4 x 2 1/8	3 5/8	3	3 1/4	4
27F98	105/115/125	5.0 6.3CT 6.3CT	3 1 5	2,500 2,500 2,500	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	4.9
25F90	105/115/125	5.0 6.3CT 6.3CT	3 1 5	2,500 2,500 2,500	TTV	3 1/2 x 2 1/4	4	4	3 1/4	4.25
27F97	105/115/125	5.0 6.3CT 6.3CT	3 3 3	2,500 2,500 2,500	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	4.9
25F89	105/115/125	5.0 6.3CT 6.3CT	3 3 3	2,500 2,500 2,500	TTV	3 1/2 x 2 1/4	4	4	3 1/4	4.75
21F57	117	5.0CT 7.5CT	3 3.25	2,500 2,500	GGV	2 1/2 x 1 15/16	3 7/8	3 1/4	3 1/4	3
21F118	117	5.0 5.0 6.3CT 7.5/ 6.3CT	3 3 4 3	2,500 2,500 2,500 2,500	LHH	2 13/16 x 2 7/16	2 7/8	2 7/8	3 3/8	4.7
21F89	115	5.0 5.0CT 6.3CT 6.3 6.3	4 2 5 5 1	1,500 1,500 1,500 1,500 1,500	GGV	2 1/2 x 2 5/8	3 7/8	3 9/32	3 1/2	6
25F87	105/115/125	5.0 12.6CT	2 1.25	2,500 2,500	TTV	2 11/16 x 1 3/4	3 5/16	3	2 1/2	2.75
27F95	105/115/125	5.0 12.6CT	2 1.25	2,500 2,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	3.5
25F26	115	6.3CT 6.3CT	.2 .2	1,500 1,500	UTV	1 5/32 x 1 5/32	2	1 1/2	1 1/2	.5
21F161	107/117	6.3 6.3	.6 .6	7,500 7,500	BAH	3 1/8	2 1/4	3 11/16	2	1.5
27F79	117	6.3CT 6.3CT	.75* .75*	1,500 1,500	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16	
27F127	117	6.3 6.3	.75 .75	2,000 2,000	YY	1 5/8 x 1 3/4	3 1/16	2 13/32	2 17/32	1.2
27F128	117	6.3 6.3	.6 3	3,500 1,000	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2
27F126	115	6.3 6.3 6.3	1.2 3 10	2,700 2,700 2,700	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	6.3
21F88	115	6.3 6.3 6.3 6.3CT	1.75 1.75 1.75 1.75	1,500 1,500 1,500 1,500	GGV	2 x 2 1/4	3 1/8	2 5/8	3	3.5
26F63	117	6.3 6.3	3 3	5,000 5,000	BAV	3 1/8	3	3 5/8	2 1/2	2
21F87	117	6.3CT 6.3CT	3 3	1,500 1,500	GGV	2 x 1 7/8	3 3/32	2 21/32	2 5/8	2.5
27F04	105/115/125	6.3 6.3CT	3 3	2,500 2,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.25
27F99	105/115/125	6.3CT 6.3CT	3 3	2,500 2,500	HA	2 19/64 x 1 55/64	4 1/4	3 1/16	2 5/8	4
25F91	105/115/125	6.3CT 6.3CT	3 3	2,500 2,500	TTV	3 1/8 x 2	3 9/16	3 1/2	2 7/8	3.5
21F24	117	6.3 6.3 6.3 6.3	3 3 3 3	2,500 2,500 2,500 2,500	GGV	2 1/2 x 2 1/4	3 7/8	3 1/4	3 3/8	5

* Industrial Rating – Use .6 Amps for Military Rating

CONTINUED NEXT PAGE

27 SERIES FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Filament

Filament Transformers with MultipleSecondary continued

Part No.	Primary Voltage	Secondary Volts	Secondary Amps	Test Volts RMS (Sec)	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27F131	117	6.3 6.3 6.3 6.3	3 3 3 3	2,500 2,500 2,500 2,500	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	6.3
27F18	105/115/125	6.3 6.3CT 6.3/5	3.5 3.5 3.0	2,000 2,000 2,000	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	.75
27F17	105/115/125	6.3 6.3CT	5 5	2,500 2,500	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	2
26F69	117	6.3 6.3	3 6	1,600 1,600	HKF	2 1/4 x 2 13/16	3 1/4	3 3/8	2 7/8	3
21F119	117	6.3CT 6.3CT	6 6	2,500 2,500	GGV	2 1/2 x 2 3/16	3 7/8	3 1/8	3 1/2	4.8
27F12	105/115/125	6.3 6.3CT	6 6	2,500 2,500	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	6.3
27F100	105/115/125	6.3CT 6.3CT	6 6	2,500 2,500	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8	6.5
25F92	105/115/125	6.3CT 6.3CT	6 6	2,500 2,500	TTV	3 7/8 x 2 3/4	4 5/16	4 7/16	3 11/16	6.5
27F74	105/115/ 210/220	6.3CT 6.3CT	7** 7**	2,500 2,500	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	6.3
27F03	105/115/125	6.3 6.3CT	10 10	2,500 2,500	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8	6.5
27F130	117	6.3 12.6	2.5 2.5	1,500 1,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.25
21F19	117	10.0CT 11.0CT	12 11	2,500 2,500	CAV	2 1/2 x 2 1/4	3 7/8	3 1/8	2 7/8	6
27F129	117	12.6 12.6	.250 .250	500 500	EA	1 3/8 x 1 1/4	2 3/4	1 15/16	1 13/16	.8
27F20	105/115/125 @ 400 cps	12.6 12.6CT	.8 .8	1,500 1,500	AJ-1	1 5/8	2 3/8	1 5/8	1 5/8	.75
27F103	105/115/125 @ 400 cps	12.6 12.6CT	.8 .8	1,500 1,500	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.8
27F10	105/115/125	12.6CT 12.6CT	1.5 1.5	1,500 1,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.25
27F21‡	57.5/99.7/ 115/120 @ 400 cps	12.6 12.6CT	2 2	1,500 1,500	EA	1 3/8 x 1 1/4	2 3/4	1 15/16	1 13/16	1.25
27F104	105/115/125 @ 400 cps	12.6 12.6CT	2 2	1,500 1,500	EA	1 3/8 x 1 1/4	2 3/4	1 15/16	1 13/16	1.25
27F11	105/115/125	12.6 12.6CT	2 2	2,500 2,500	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	6.5
27F81‡	57.5/99.7/ 115 @ 400 cps	12.6 12.6CT	2.5‡‡ 2.5‡‡	1,500 1,500	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	.75
27F80	115	12.6CT 12.6	2.5‡‡ 2.5‡‡	1,500 1,500	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.25
21F90	115	12.6 12.6CT	2.5 2.5	1,500 1,500	GGV	2 1/4 x 2	31/2	3	3 1/8	3.7
21F91	105/115/125	12.6 12.6CT	5 5	2,500 2,500	GGV	2 1/2 x 2 5/8	3 7/8	3 7/32	3 1/2	6
25F85	105/115/ 210/220/230	14/11/10 14/11/10	10 10	4,000 4,000	RC	4 1/8 x 4 1/8	5 1/2	5 1/8	5 1/8	15.5
26F64	117†	25† 6.3† 6.3	.320 6 1.2	1,500 1,500 2,500	GGV	2 x 1 3/4	3 1/8	2 5/8	2 3/4	3.5
27F23	105/115/125	26CT 26CT	2 2	2,000 2,000	JA	2 5/8 x 2 1/8	4 7/8	3 9/16	3 1/16	6.3
27F22‡	57.5/99.7/ 115/120 @ 400 cps	26CT 26CT	2 2	2,000 2,000	FA	1 11/16 x 1 7/16	3 1/8	2 5/16	2 1/16	.75

‡ Two units may be Scott connected to provide two phase output from a three phase 400 cycle input

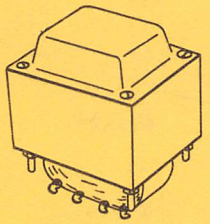
† Autoformer Winding

‡‡ Industrial Rating – Use 2 Amps. for Military Rating

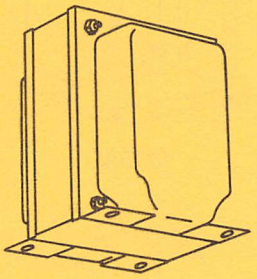
** Industrial Rating – Use 6 Amps. for Military Rating

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



HKF



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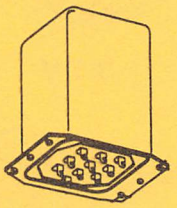

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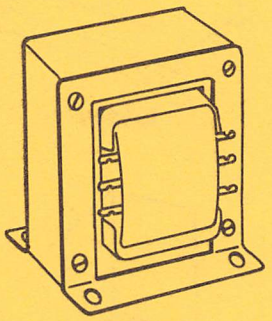

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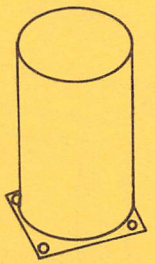

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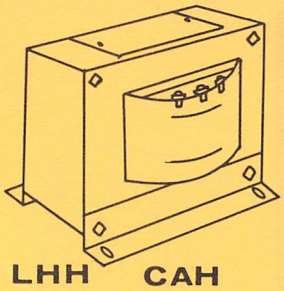
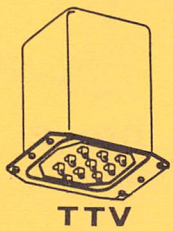


LHH CAH



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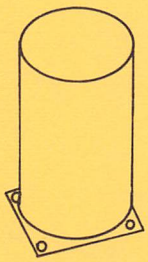

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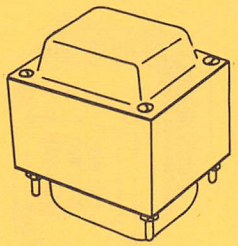
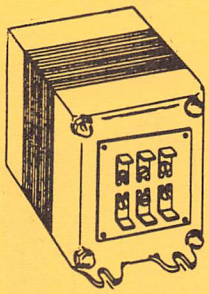
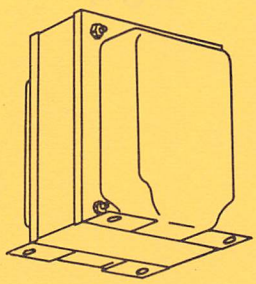


AGF



PUV
PUH



GGV
GGV-2

GGV-2 SAME AS GGV WITH LEADS OUT OF SHIELD

Plate Transformers

ALL PRIMARIES 50/60 CYCLES -STATIC SHIELDED

Part No.	Primary Voltage	Secondary A.C. Volts	Sec. MADC	Mtg ✪ Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27P39	117	140-0-140	550	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	7
21P50	117	150-0-150	500	LHH	3 7/16 x 2 3/4	3 1/2	4 1/8	2 3/4	5
21P49	117	225-0-225	750	GGV	3 x 3 1/16	4 5/8	3 13/16	4 1/8	7.5
25P96	115/230	380-0-380	1,000	PUV	2 3/16 x 7	5 3/16	4 1/16	7 1/2	16
21P48	117	400-0-400	200	AGF	3 x 3 3/4	3 3/16	4 1/2	3 3/4	8.5
27P40	117	400-0-400	350	YY	3 x 3 3/8	2 5/16	4 7/64	4 9/16	6
21P73	117	415-0-415	200	GGV	2 1/2 x 2 3/16	4	3 1/4	3 7/16	5
21P51	117	500/40-0-500 *	300	GGV	3 x 3 7/16	4 3/4	4	4 1/2	9.8
21P47	115	500-0-500	1,500	CAH	5 5/16 x 4	8 1/2	6 3/16	5	30
21P76	117	515-0-515	235	GGV	2 3/4 x 2 15/16	4 5/16	3 5/8	4 1/8	7
21P89	117	550-0-550	175	GGV	2 1/2 x 3	3 7/8	3 1/4	4 1/4	6.5
25P66	105/115/ 210/230	580-530-300-0 -300-530-580	420	RC	4 1/8 x 4 1/8	5 1/2	5 1/8	5 1/8	15.5
21P78	117	600-0-600‡ 500-0-500‡	250	GGV	3 x 3 3/8	4 3/4	4	4	9.5
27P31	105/115/ 210/230	600-0-600 * 525-0-525	265* 280*	MB	3 11/16 x 3	4 15/16	4 11/16	4	12.5
25P97	117	600-0-600	350	PUV	2 3/16 x 6 1/2	5 3/16	4 1/16	7	15
27P30	105/115/ 210/230	600-0-600 or 525-0-525	385* 400*	MB	3 11/16 x 3	4 15/16	4 11/16	4	12.5
27P33	105/115/ 210/230	600-0-600 * or 525-0-525	380* 420*	NA	4 1/16 x 3 5/16	6 13/16	5 1/16	4 5/16	17
27P32	105/115/ 210/230	600-0-600 or 525-0-525	550* 600*	NA	4 1/16 x 3 5/16	6 13/16	5 1/16	4 5/16	17
21P52	117	615-520-40-0-520-615 *	250	GGV	3 x 4 1/16	4 3/4	4	5 1/8	13.6
25P65	105/115/ 210/230	625-515-0-515-625	200	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11
21P80	117	665-0-665	250	GGV	3 x 3 3/16	4 3/4	4	4 3/8	9.6
25P82	115/230	675-0-675 or 575-0-575	250	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	12
21P65	117	728-0-728	250	GGV	3 x 2 7/8	4 5/8	4	4	8.5
21P84	117	750-0-750	265	GGV	3 x 3 11/16	4 3/4	4	4 7/8	11.5
21P53	117	770-510-40-0-510-770 *	300	GGV	3 x 5 5/16	4 3/4	4	6 3/8	18
21P87	117	835-0-835 656-0-656	220	GGV	3 x 3 3/8	4 5/8	3 7/8	4 1/2	10
21P85	115/230	855-0-855‡ 731-0-731‡	300	PUV	6 3/8 x 2 1/4	5 1/4	4 1/8	6 7/8	19
21P66	115/230	890-0-890	250	GGV-2	3 1/2 x 2 7/8	5 5/16	4 1/2	3 7/8	9.5
25P83	115/230	900-735-0-735-900	250	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	12
21P86	117	920-0-920	250	GGV	3 x 3 13/16	4 3/4	4	5	12
25P67	105/115/ 220/230	950-750-0-750-950	360	RC	4 7/8 x 4 7/8	7	5 3/4	5 3/4	22
27P35	105/115/ 210/230	950-0-950 * or 750-0-750	230* 270*	NA	4 1/16 x 3 5/16	6 13/16	5 1/16	4 5/16	17
27P34	105/115/ 210/230	950-0-950 or 750-0-750	330* 385*	NA	4 1/16 x 3 5/16	6 13/16	5 1/16	4 5/16	17
21P93	117	1075-0-1075 and 500-0-500	95 125	GGV	3 x 3 5/8	4 5/8	3 7/8	4 3/4	10
25P84	115/230	1150-870-0-870-1150	250	PUH	4 3/4 x 5 1/2	7	6 5/16	7 1/2	37
21P67	115/230	1170-0-1170	250	GGV-2	3 1/2 x 3 3/8	5 5/16	4 1/2	4 3/8	13.5
21P91	115/230	1200-0-1200 and 900-0-900	110 150	PUV	6 7/8 x 2 1/4	5 1/4	4 1/8	7 3/8	22
21P88	117	1200-0-1200	225	GGV-2	3 x 4 1/16	4 3/4	4	5 1/8	13
21P90	117	1200-0-1200	325	GGV-2	3 1/2 x 5 1/8	5 3/8	4 5/8	6 5/8	22.2
21P68	115/230	1215-0-1215	500	GGV-2	4 1/4 x 3 3/4	6 1/2	5 1/2	5 3/4	25
25P85	115/230	1425-0-1425 and 600-0-600	150 200	TTV	3 1/2 x 5 3/8	6 1/16	5 1/16	5 7/8	26
21P69	115/230	1440-0-1440 *	250	GGV-2	3 1/2 x 3 5/8	5 3/8	4 1/2	4 5/8	14.75
21P70	115/230	1440-0-1440 *	500	GGV-2	4 1/4 x 4 1/4	6 1/2	5 1/2	6 1/4	27.5

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

‡ Secondary Voltage changed by means of a Primary Tap. Either of the Secondary Voltages are available.

* These units may be used both in full wave center tap and full wave bridge applications. Center tap of secondary may be disconnected from ground.

* This current rating is for industrial applications, for Military current ratings refer to the MIL-T27A Section (green) of this catalog.

CONTINUED NEXT PAGE

Plate Transformers Continued

ALL PRIMARIES 50/60 CYCLES-STATIC SHIELDED

All MADC ratings are listed for choke input filters unless otherwise noted.

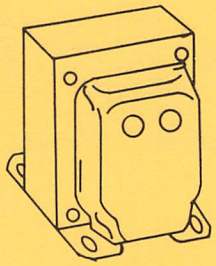
Part No.	Primary Voltage	Secondary A.C. Volts	Sec. MADC	Mtg ✪ Type	Mtg Centers	Dimensions H	W	D	Wt. Lbs.
21P92	117	1475-0-1475	250	GGV-2	3 1/2 x 5	5 3/8	4 1/2	6 1/2	22.3
25P68	105/115/ 210/230	1500-0-1500 and 1235-0-1235 400-0-400	260† 175 120	RC	4 7/8 x 4 7/8	7	5 3/4	5 3/4	22
27P36	105/115/ 210/230	1500-0-1500 or 1250-0-1250	330* 375*	YY	5 x 4 3/16	6 3/4	6	5 1/8	27
27P37	105/115/ 210/230	1500-0-1500 or 1250-0-1250	475 525	YY	5 5/8 x 5 3/8	8	6 3/4	6 1/2	50
21P83	115/230	1560-0-1560‡ or 1250-0-1250	200	PUV	7 5/8 x 2 3/4	6	4 3/4	8 1/2	33
21P81	115/230	1560-0-1560‡ or 1265-0-1265	300	PUV	10 1/8 x 3 1/8	6 7/8	5 3/4	11	57
21P71	115/230	1650-0-1650 ✱	350	GGV-2	4 1/4 x 3 3/4	6 1/2	5 1/2	5 3/4	24.5
21P72	115/230	1650-0-1650 ✱	500	GGV-2	4 1/4 x 4 1/4	6 1/2	5 1/2	6 1/4	29
25P86	115/230	1710-1430-0-1430-1710	300	PUH	6 11/16 x 4 3/4	7	7 1/2	7 1/2	43
21P94	117	1790-0-1790	250	GGV-2	3 5/8 x 5	6	4 1/2	6 5/8	24
21P79	115/230	1875-1560-0-1560-1875	400	PUV	10 1/8 x 3 1/8	6 7/8	5 5/8	11	60
21P95	117	2065-0-2065	200	GGV-2	3 5/8 x 5 1/8	6	4 1/2	6 3/4	25
21P82	115/230	2100-0-2100‡ or 1600-0-1600	220	PUV	10 1/8 x 3 1/8	6 7/8	5 5/8	11	58
27P38	105/115/ 210/230	2200-0-2200 or 1450-0-1450	320* 375*	YY	5 5/8 x 5 3/8	8	6 1/2	6 3/4	50
25P87	115/230	2820-2260-0-2260-2820	300	PUV	5 1/2 x 6	8 1/2	8 1/4	8 7/8	71
25P88	115/230	2900-2340-2340-2900	500	PUV	12 3/8 x 4 1/4	9 5/8	7 5/8	13 1/2	95
21P77	115/230	3000-2450-0-2450-3000	300	PUV	10 1/8 x 3 1/8	9	6 3/8	11	70
21P96	115/230	3080-2480-0-2480-3080	500	JUV	6 1/2 x 5 3/4	9 7/8	6 3/4	8 1/2	63
21P75	115/230	3000-2400-1500-0 -1500-2400-3000	500	PUV	12 3/8 x 4 1/4	9 5/8	7 5/8	13 1/2	90
25P89	115/230	3450-2850-0-2850-3450	500	PUH	8 1/4 x 7 1/2	10 1/2	10 1/4	11 1/2	137
25P90	115/230	4600-4060-3400-0 -3400-4060-4600	600	PUV	8 7/8 x 9	12 3/4	10 3/8	13 13/16	150

† 300 MADC if used without load on 400 Volt Winding.

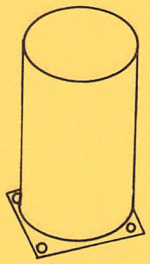
‡ Secondary Voltage changed by means of a Primary Tap. Either of the Secondary Voltages are available.

✱ These units may be used both in full wave tap and full wave bridge applications. Center tap of secondary may be disconnected from ground.

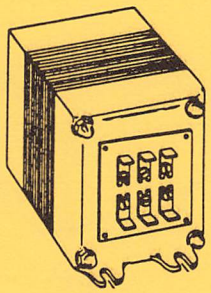
* This current rating is for industrial applications, for Military current ratings refer to the MIL-T27A Section (green) of this catalog.



GGV-2



RC

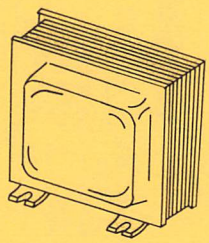


PUV

Plate Testing Transformer

This unit is suitable for use in half-wave power supplies, high voltage testing, high voltage demonstration and displays, dielectric air filtering and many other high voltage applications. The 24P79 has a maximum short circuited secondary current of 40 M.A. This current limiting feature has been accomplished by a closed core double magnetic circuit.

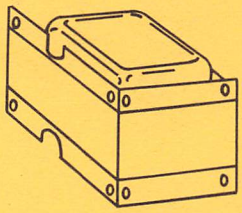
Part No.	Secondary A.C. Volts	Mtg Type	Mtg Centers	Dimensions H	W	D	Wt. Lbs.
24P79	25,000 OPEN CIRCUIT	CTV	3 1/2 x 4 1/2	14	6 3/8	8 1/2	42



PUH

✪ 27 SERIES GEO SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

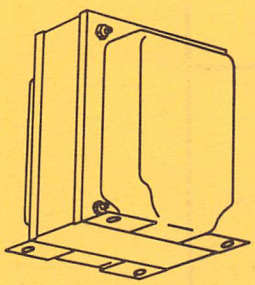


GGH

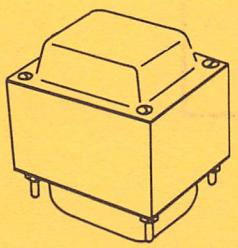
Triple-X Power Transformers

Triple-X grain oriented steel lamination used in these Power Transformers make it possible to supply more output power in the same size unit. New home entertainment equipment require more power per pound of transformer than ever before, making it necessary to use the most advanced engineering and material. Older equipment require more power because of changing components, capacitor leakage, etc. Increased power requirements would normally mean an increase in size; however, these Triple-X units will satisfy the increased power demand without increasing the size.

Part No.	Plate Supply		Rect. Filament		Other Filament		Mtg Type	Mtg Centers	Dimensions		
	Volts	MADC	Volts	Amps.	Volts	Amps.			H	W	D
26R105	117/110	900	–	–	6.3	10	GGH	3 5/16 x 3 3/16 or 2 1/2 x 3 3/16	3 1/8	3 3/4	3 3/4
26R106	117/110	900	–	–	6.3	10	AGF	2 13/16 x 2 1/4	2 5/8	3 3/8	2 13/16
26R107	127/115	1,000	–	–	6.3	10	AGF	3 1/8 x 2 1/2	2 9/16	3 3/4	3 1/8
					6.3	2	GGV	2 1/2 x 2 1/8	3 3/4	3 1/8	3 1/2
					12.6CT	2	GGH	2 1/2 x 2 1/8	3 1/8	3 3/4	3 1/2
					12.6CT	5	(Univ. Brkt.)				
26R108	140/127/115	1,000	–	–	6.3	6	AGF	2 13/16 x 2 1/4	2 3/16	3 3/8	2 13/16
					6.3	6	GGV	2 1/4 x 2 1/8	3 3/8	2 13/16	3 1/8
					12.6CT	2	GGH (Univ. Brkt.)	2 13/16 x 2 1/8	2 13/16	3 3/8	3 1/8
26R109	250-0-250	300	5/3	3.8	6.3	10	GGV	2 1/2 x 2 11/16	3 3/4	3 1/8	3 15/16
26R110	250-0-250	300	5/3	3.8	6.3	11	GGV	2 3/4 x 2 5/8	4 1/8	3 7/16	3 5/8
26R111	250-0-250	300	5/3	3.8	6.3	11	AGF	3 7/16 x 2 3/4	2 1/2	4 1/8	3 7/16
26R112	255-0-255	300	5/3	3.8	6.3	10	GGV	2 1/4 x 2 7/8	3 1/2	2 13/16	4
26R113	255-0-255	300	5/3	3.8	6.3	10	AGF	3 5/16 x 2 11/16	2 5/8	3 3/4	3 1/8
26R114	255-0-255	300	5/3	3.8	6.3	10	GGH	3 5/16 x 3 3/16 or 2 1/2 x 3 3/16	3 1/8	3 3/4	3 3/4
26R115	270-0-270	300	5/3	3.8	6.3	10	GGV	2 1/2 x 2 5/8	3 3/4	3 1/8	3 7/8
26R116	270-0-270	300	5	3.8	6.3	10	AGF	3 5/16 x 2 11/16	2 9/16	3 3/4	3 1/8
26R117	270-0-270	300	5/3	3.8	12.6CT	6	AGF	3 5/16 x 2 11/16	2 3/4	3 3/4	3 1/8
26R118	270-0-270	300	5/3	3.8	6.3	10	GGV	2 1/4 x 3 1/4	3 1/2	2 13/16	4
26R119	272-0-272	300	5/3	3.8	6.3	11	GGV	2 3/4 x 2 3/4	4 1/8	3 7/16	3 1/2
26R120	272-0-272	300	5/3	3.8	6.3	11	AGF	3 7/16 x 2 3/4	2 5/8	4 1/8	3 7/16
26R121	275-0-275	300	5	6	6.3	2	AGF	3 1/8 x 2 1/2	3 13/16	3 3/4	3 1/8
					6.3	5	GGV	2 1/2 x 3 3/8	3 3/4	3 1/8	4 3/4
					6.3	8	GGH (Univ. Brkt.)	2 1/2 x 3 3/8	3 1/8	3 3/4	4 3/8
26R122	280-0-280	280	5	3	6.3	9.5	AGF	3 1/8 x 2 1/2	3 1/16	3 3/4	3 1/8
							GGV	2 1/2 x 2 5/16	3 3/4	3 1/8	3 11/16
							GGH (Univ. Brkt.)	2 1/2 x 2 5/16	3 1/8	3 3/4	3 11/16
26R123	280-0-280	300	5	4	6.3	10	GGV	2 11/16 x 3 3/16	3 3/4	3 1/8	3 7/8
26R124	285-0-285	300	5	3.8	12.6CT	5.2	GGV	2 1/2 x 2 3/4	3 3/4	3 1/8	3 5/8
26R125	285-0-285	300	5	3.8	12.6CT	5.2	AGF	3 5/16 x 2 11/16	2 3/4	3 3/4	3 1/8
26R126	288-0-288	300	5	3	6.3	10	AGF	2 13/16 x 2 1/4	2 7/8	3 3/8	2 13/16
26R127	290-0-290	300	5/3	3.8	6.3	10	GGV	2 3/4 x 2 3/4	3 3/4	3 1/8	4
26R128	290-0-290	300	5	3.8	6.3	10	AGF	3 5/16 x 2 11/16	2 13/16	3 3/4	3 1/8
26R129	290-0-290	300	5/3	3.8	6.3	10	GGH	3 5/16 x 3 9/16 or 2 1/2 x 3 9/16	3 1/8	3 3/4	4
26R130	290-0-290	300	5/3	3.8	6.3	11	GGH	3 7/16 x 2 5/8 or 3 7/16 x 3 1/4	3 7/16	4 1/8	3 1/2
26R131	292-0-292	300	5/3	3.8	6.3	11	GGV	2 3/4 x 2 3/4	4 1/8	3 7/16	3 3/4
26R132	292-0-292	300	5/3	3.8	6.3	11	AGF	3 7/16 x 2 3/4	2 3/4	4 1/8	3 7/16



GGV



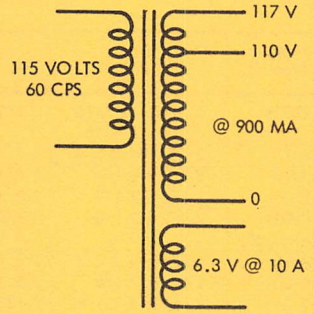
AGF

SCHEMATICS FOR THESE UNITS SHOWN ON THE NEXT PAGE.

Triple-X Power Transformers

COMPLETE RATINGS SHOWN ON PRECEDING PAGE

26R105
26R106



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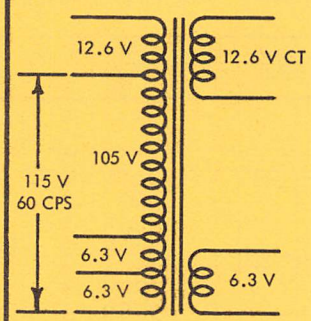

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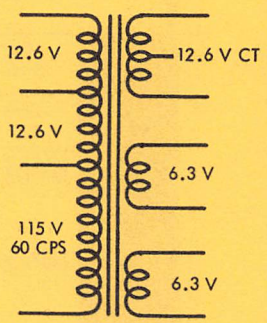
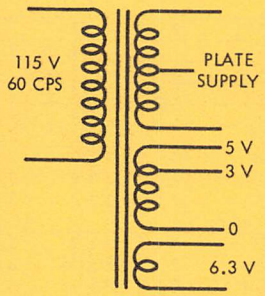


26R109
26R110
26R111

26R112
26R113
26R114
26R115



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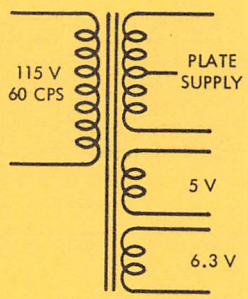
26R122
26R123

26R126
26R128



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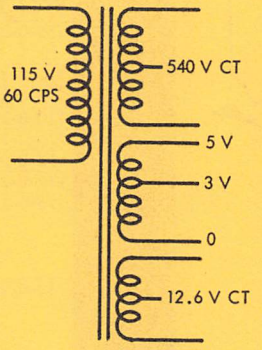
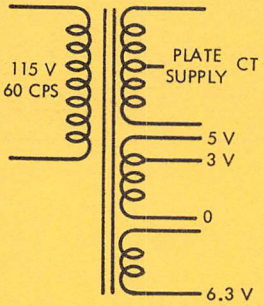
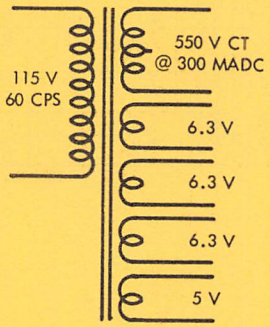


26R118
26R119
26R120
26R127

26R129
26R130
26R131
26R132



26R121



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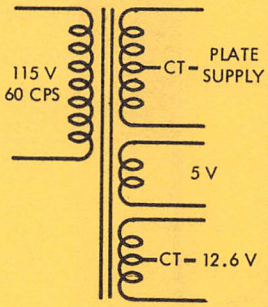
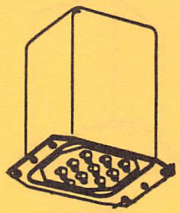
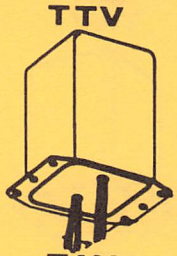
26R125





TTV



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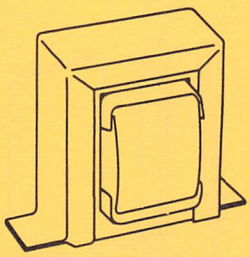

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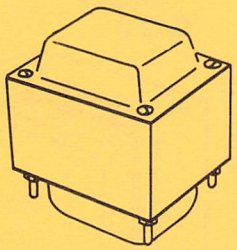
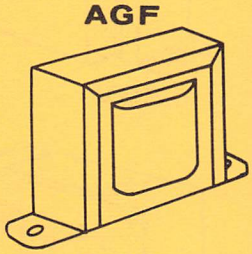
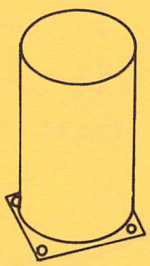


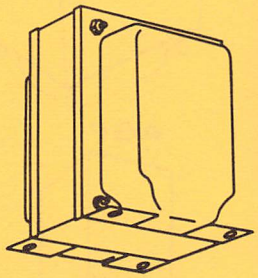
AGF



BAH



RC



GGV

Power Transformers Continued

PRIMARY 117 VOLTS 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	✪Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
25R50	1	Any DC voltage from 15 to 100 volts ±6%@250madc						RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
25R51	1	Any DC voltage from 75 to 400volts ±6%@250madc						RC	4 1/8 x 4 1/8	5 1/2	5 1/8	5 1/8	15.5
24R105	2	30-0-30	2.5 A.	–	–	6.3 6.3	1.5 1.5	GGV	2 3/4 x 2 11/16	4 5/16	3 5/8	3 15/16	6
27R105	2	30-0-30	2.5 A.	–	–	6.3 6.3	1.5 1.5	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
24R104	2	40-0-40	2 A.	–	–	6.3 6.3	1.5 1.5	GGV	2 3/4 x 2 13/16	4 5/16	3 5/8	4 1/16	6.5
27R104	2	40-0-40	2 A.	–	–	6.3 6.3	1.5 1.5	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
24R103	2	50-0-50	1.6 A.	–	–	6.3 6.3	1.5 1.5	GGV	2 3/4 x 2 11/16	4 5/16	3 5/8	3 15/16	6
27R103	2	50-0-50	1.6 A.	–	–	6.3 6.3	1.5 1.5	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
24R115		62-0-62	30	–	–	12.6CT	.8	BAH	2 13/16	2	3 1/4	1 3/4	.7
24R102	2'	100-0-100	800	–	–	6.3 6.3	2 2	GGV	2 3/4 x 2 15/16	4 5/16	3 5/8	4 3/16	6.9
27R102	2	100-0-100	800	–	–	6.3 6.3	2 2	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
24R70		115-0-115	40	–	–	6.3CT	1.5	GGV	1 3/4 x 1 5/8	2 3/4	2 11/32	2 3/8	1.75
27R13	3,4	117.5-0-117.5 100-0-100	85 95	–	–	6.3	4	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	4
24R116		120-0-120	75	–	–	6.3	2	GGV	1 3/4 x 1 3/4	2 5/8	2 3/16	2 1/2	1.5
24R108		120-0-120	250	5	3	–	–	GGV	2 1/2 x 1 15/16	4	3 1/4	3 1/8	4.2
24R68		125-0-125	22	–	–	6.3 15.5– 12.6	.8 .6	AGF	2 3/16 x 1 3/4	1 7/8	2 5/8	2 3/16	1.75
22R39		125-0-125	25	–	–	6.3	1	BAV	2 3/8	2 3/8	2 7/8	1 3/4	1.0
27R14	3,4	132.5-0-132.5 107.5-0-107.5	165 195	–	–	6.3	6	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	5
27R15	3,4	147.5-0-147.5 115-0-115	260 300			6.3 6.3	6 2	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8	9.5
24R101	2	150-0-150	600	–	–	6.3 6.3	2.5 2.5	GGV	2 3/4 x 3 1/16	4 5/16	3 5/8	4 5/16	7.1
27R101	2	150-0-150	600	–	–	6.3 6.3	2.5 2.5	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
27R16	3,4	160-0-160 130-0-130	290 350	–	–	6.3 6.3	7 2	MB	3 11/16 x 3	4 15/16	4 11/16	4	13
22R38		180-0-180	42	–	–	6.3	2.8	AGF	1 3/4 x 2 1/4	2 3/4	2 5/8	2 1/4	1.8
27R85		180-160-140- 120-0-120- 140-160-180	150	5	3	–	–	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	5
27R60		180-160-140- 120-0-120- 140-160-180	150	5	3	–	–	YY	2 3/8 x 2 1/8	4.242	3.245	2.245	5
25R21		180-160-140- 120-0-120- 140-160-180	150	5	3	–	–	TAV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5
25R42		180-160-140- 120-0-120- 140-160-180	150	5	3	–	–	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5
25R22	5	180-160-140- 120-0-120- 140-160-180	150	5	3	–	–	TAV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5
25R43	5	180-160-140- 120-0-120- 140-160-180	150	5	3	–	–	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	5
22R95		190-160-0- 160-190	70	–	–	6.3CT 6.3	3 .6	AGF	2 1/2 x 2	1 3/4	3	2 1/2	2.75
22R94		190-160-0- 160-190	70	–	–	6.3CT 6.3	3 .6	GGV	2 x 1 7/8	3 3/32	2 21/32	2 5/8	2.75

CONTINUED NEXT PAGE

1 MADC rating for choke input filter. For capacitor input filter divide MADC rating by 1.30

2 Refer to the Silicon Rectifier page at the end of this section for complete voltage and circuit details.

3 MADC rating for bridge rectifier circuits. Reduce secondary current 10% for 50 cycle operation.

4 The ratings listed here are for industrial applications. For MIL-T-27A ratings refer to the MIL-T-27A (green) section of this catalog.

5 Primary 230 Volts 50/60 Cycles

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Power Transformers continued

PRIMARY 117 VOLTS 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	✪Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27R86	6	200-100-0-100-200	70	6.3/5	2	6.3	3	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	4
24R100	2	200-0-200	400	–	–	6.3 6.3	3 3	GGV	2 3/4 x 3 1/16	4 5/16	3 5/8	4 5/16	7.1
27R100	2	200-0-200	400	–	–	6.3 6.3	3 3	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
25R44		220-0-220	15	6.3CT	.6	6.3CT	1.2	UTV	1 3/8 x 1 13/16	3 1/8	1 15/16	2 3/8	2
24R10		220-0-220	50	6.3	.6	25.2	.5	GGV	2 x 1 9/16	3 3/16	2 5/8	2 5/8	2.2
24R82	1	220-110-0-110-220	160	5	3	–	–	GGV	2 1/4 x 2 1/8	3 1/2	3	3 1/4	4
26R81		220-0-220 130-0-130	330 220	5	3	6.3 6.3	6.5 6.5	AGF	3 x 3 3/4	4 7/8	3 3/4	4 1/2	10.5
27R01		225-0-225	38	–	–	6.3CT	2.5	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	1.5
27R65		225-0-225	40	5	2	6.3CT	2	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	3.2
27R40		225-0-225	40	5	2	6.3CT	2	YY	2 x 1 7/8	3.742	2.861	2.711	3.2
25R01		225-0-225	40	5	2	6.3CT	2	TAV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.2
25R23		225-0-225	40	5	2	6.3CT	2	TTV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.2
26R63		225-0-225	90	5	2	6.3	5.15	AGF	2 1/4 x 2 13/16	3 3/4	2 13/16	3 3/8	4.5
27R35	7	225-0-225	200	6.3/5	4	6.3CT 6.3	6 6	JA	3 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	5.5
24R11		230-0-230	50	–	–	6.3	2.5	AGF	2 x 2 1/2	2 5/8	3	2 1/2	2.2
24R11U		230-0-230	50	–	–	6.3	2.5	GGV	2 x 1 9/16	3 3/16	2 5/8	2 5/8	2.2
26R09		230-0-230	300	5	6	6.3 6.3 6.3	10 2.5 1.2	AGF	3 3/4 x 3	3 3/8	4 1/2	3 3/4	12
24R117		235-0-235	600	5	6	–	–	CAH	2 13/16 x 5 3/4	2 7/8	3 3/8	6	12
27R31	7	238-0-238	20	–	–	6.3CT	1.5	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.7
24R00		240-0-240	40	5	2	6.3CT	2	AGF	2 x 2 1/2	2 5/8	3	2 1/2	2
24R00U		240-0-240	40	5	2	6.3CT	2	GGV	2 x 1 5/8	3 1/8	2 5/8	2 5/8	2
24R118	8	240-0-240	40	5	2	6.3CT	2	GGV	2 x 1 5/8	3 1/8	2 5/8	2 5/8	2
24R16		240-0-240	50	–	–	6.3	2.5	GGV	2 x 1 9/16	3 1/8	2 5/8	2 5/8	2
24R19		240-0-240	55	5	2	6.3CT	2	AGF	2 x 2 1/2	2 3/4	2 1/2	3	2.5
24R19U		240-0-240	55	5	2	6.3CT	2	GGV	2 x 1 11/16	3 1/8	2 5/8	2 3/4	2.5
24R88		240-0-240	60	–	–	6.3CT	2.75	AGF	1 15/16	2 3/4	2 3/16	2 11/16	2.3
24R12		240-0-240	70	–	–	6.3	3	AGF	2 x 2 1/2	2 7/8	2 1/2	3	2.6
24R12U		240-0-240	70	–	–	6.3	3	GGV	2 x 1 13/16	3 1/8	2 1/2	2 7/8	2.6
24R119	8	240-0-240	70	–	–	6.3	3	GGV	2 x 2	3 1/8	2 1/2	3	2.8
24R120		240-0-240	125	5	2	6.3	5	AGF	3 1/8 x 2 1/2	3 1/4	3 3/4	3 1/8	4
24R89		250-0-250	10	6.3	.6	6.3	1.2	FGV	2 3/8	2 1/4	2 7/8	2 1/8	1
27R63		250-0-250	10	6.3	.6	6.3	1.2	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	1.2
27R38		250-0-250	10	6.3	.6	6.3	1.2	YY	1 13/16 x 1 11/16	3.049	2.521	2.381	2
24R90		250-0-250	20	6.3	.6	6.3	1.2	FGV	2 13/16	2 5/8	3 1/4	2 1/4	1.5
27R64		250-0-250	20	6.3	.6	6.3	1.2	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	1.7
27R39		250-0-250	20	6.3	.6	6.3	1.2	YY	1 13/16 x 1 11/16	3.299	2.521	2.381	2
27R19		250-0-250	20	–	–	6.3CT	2	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	2
24R69		250-0-250	20	–	–	6.3	2	GGV	1 3/4 x 1 3/4	2 3/4	2 3/8	2 1/2	1.7
22R08		250-0-250	40	5	2	2.5CT	4	AGF	2 x 2 1/2	2 1/2	2 1/2	3	1.7
22R00		250-0-250	40	5	2	6.3CT	2	AGF	2 x 2 1/2	2 1/2	3	2 1/2	2
24R121	8	250-0-250	40	5	2	6.3CT	2	GGV	2 x 1 5/8	3 1/8	2 1/2	2 1/2	2

1 MADC rating for choke input filter. For capacitor input filter divide MADC rating by 1.30
2 Refer to the Silicon Rectifier page at the end of this section for complete voltage and circuit details.
6 Primary 105/115/125 Volts 54/64 Cycles.
7 Primary 115 Volts 380/1500 Cycles.
8 Primary 115/230 Volts 50/60 Cycles.

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

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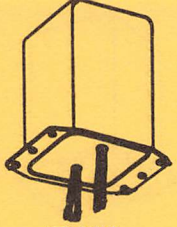
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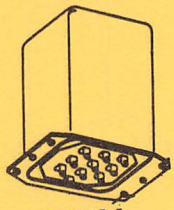
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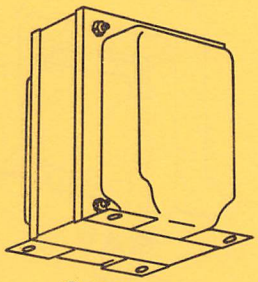
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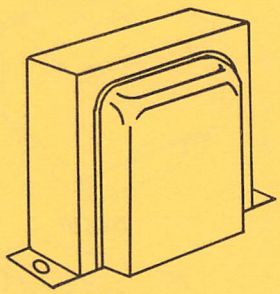
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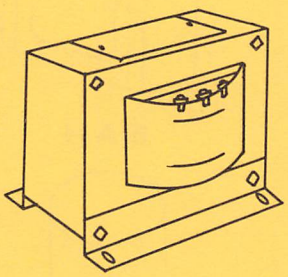
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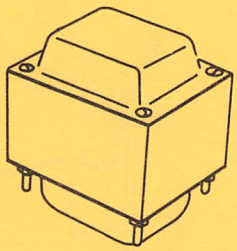
AGF

UTV

Power Transformers

Continued

PRIMARY 117 VOLTS 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24R50		250-0-250	40	–	–	6.3CT	2	GGV	1 3/4 x 1 1/2	2 3/4	2 3/8	2 1/4	1.5
24R51		250-0-250	40	–	–	6.3CT	2	AGF	2 3/16 x 1 3/4	1 1/2	2 5/8	2 3/8	1.5
27R62		250-0-250	40	6.3	1	6.3	1	EB	1 1/4 x 1 3/8	2 7/16	1 15/16	1 13/16	1.5
27R128		250-0-250	45	6.3	.6	6.3	.8	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	1.2
24R09		250-0-250	70	5	2	6.3CT	2.5	AGF	2 x 2 1/2	3 1/8	3	2 1/2	3.2
24R09U		250-0-250	70	5	2	6.3CT	2.5	GGV	2 x 2 1/16	3 1/8	2 5/8	3 1/8	3.2
26R33		250-0-250 or 300-0-300	280 250	5 5	3 3	6.3 6.3	5 5	AGF	3 x 3 3/4	4 1/2	3 3/4	4 1/2	11
26R109	9	250-0-250	300	5/3	3.8	6.3	10	GGV	2 1/2 x 2 11/16	3 7/8	3 1/8	3 15/16	4.5
26R110	9	250-0-250	300	5/3	3.8	6.3	11	GGV	2 3/4 x 2 5/8	4 1/8	3 7/16	3 5/8	5
26R111	9	250-0-250	300	5/3	3.8	6.3	11	AGF	3 7/16 x 2 3/4	2 1/2	4 1/8	3 7/16	5
24R122		250-0-250	500	5	6	–	–	GGV	3 x 2 13/16	4 5/8	3 3/4	3 7/8	7
27R106	10	255-0-255	40	5	2	6.3CT	2	GB	2 1/8 x 1 3/4	2 13/16	2 3/4	2 3/8	2.7
26R112	9	255-0-255	300	5/3	3.8	6.3	10	GGV	2 1/4 x 2 7/8	3 1/2	2 13/16	4	6
26R113	9	255-0-255	300	5/3	3.8	6.3	10	AGF	3 5/16 x 2 11/16	2 5/8	3 3/4	3 1/8	6
26R114	9	255-0-255	300	5/3	3.8	6.3	10	GGH	3 5/16 x 3 3/16	3 1/8	3 3/4	3 3/4	6
26R31		260-0-260	90	–	–	6.3	4	AGF	2 1/4 x 2 13/16	3 1/2	2 5/8	3 3/8	3.5
26R31U		260-0-260	90	–	–	6.3	4	GGV	2 x 2 1/4	3 1/8	2 5/8	3 1/8	3.5
26R142	8	260-0-260	90	–	–	6.3CT	3.5	GGV	2 x 2 7/16	3 1/8	2 5/8	3 1/4	3.5
24R13		260-0-260	90	5	2	6.3CT	3	AGF	2 1/4 x 2 13/16	3 5/8	2 7/8	3 1/8	4
24R13U		260-0-260	90	5	2	6.3CT	3	GGV	2 1/4 x 2 1/4	3 1/2	2 7/8	3 5/8	4
24R123	8	260-0-260	90	5	2	6.3CT	3	GGV	2 1/4 x 2 1/4	3 1/2	2 7/8	3 5/8	4
26R36		260-0-260	150	5	5	6.3	5	AGF	2 1/2 x 3 1/8	3 3/4	3 1/8	3 3/4	4.2
26R143	8	260-0-260	150	5	5	6.3	5	AGF	2 1/2 x 3 1/8	3 3/4	3 1/8	3 3/4	4.2
26R10		260-0-260	270	5	3	6.3	10	AGF	3 x 3 3/4	2 5/8	3 3/4	4 1/2	8.7
26R52		260-0-260	380	5CT	6	12.6CT	6.4	GRV-1	3 x 5 1/2	6	3 3/4	5 1/2	11
26R126	9	262.5-0-262.5	300	5	3	6.3	10	AGF	2 1/4 x 2 13/16	2 7/8	3 3/8	2 13/16	4
24R81		262.5-0-262.5	90	5	2	6.3CT	5	AGF	2 1/4 x 2 13/16	1 7/8	3 3/8	2 13/16	3.2
22R97		262.5-0-262.5	90	5	2	6.3CT	5	AGF	2 1/4 x 2 13/16	2 3/8	3 3/8	2 13/16	4.5
24R80		262.5-0-262.5	90	5	2	6.3CT	5	GGV	2 1/4 x 2	3 1/2	3	3 1/8	3.2
22R96		262.5-0-262.5	90	5	2	6.3CT	5	GGV	2 1/4 x 2 1/2	3 1/2	3	3 5/8	4.5
26R48		265-0-265	228	5	3	12.6CT	5.5	AGF	2 1/2 x 3 1/8	3 7/8	3 1/8	3 3/4	5
26R59		265-0-265	300	5	6	12.6CT	6	GRV-1	3 x 5 1/2	6	3 3/4	5 1/2	11
26R88		265-0-265	300	5	6	6.3 6.3 6.3	6 6 1.2	AGF	3 x 3 3/4	5	3 3/4	4 1/2	11
26R47		268-0-268	260	5	3	6.3	10.5	AGF	2 1/2 x 3 1/8	3	3 1/8	3 3/4	5
26R53		268-0-268	260	5	3	6.3	8	GGV	2 3/4 x 2 15/16	4 1/4	3 7/16	4	6.2
27R66		270-0-270	55	5	2	6.3CT	2	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	3.5
27R41		270-0-270	55	5	2	6.3CT	2	YY	2 x 1 7/8	3.742	2.861	2.711	3.5
25R02		270-0-270	55	5	2	6.3CT	2	TAV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.5
25R24		270-0-270	55	5	2	6.3CT	2	TTV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.5
27R94	10	270-0-270	55	5	2	6.3CT	2	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	1.5
27R107	10	270-0-270	55	5	2	6.3CT	2	GB	2 1/8 x 1 3/4	2 13/16	2 3/4	2 3/8	2.7
27R114	10	270-0-270	55	5	2	6.3CT	2	YY	1 9/16 x 1 3/8	2.930	2.241	2.101	1.5
24R20		270-0-270	120	5	3	6.3CT	3.5	AGF	2 1/2 x 3 1/8	3 1/2	3 1/8	3 3/4	5
24R20U		270-0-270	120	5	3	6.3CT	3.5	GGV	2 1/2 x 2 3/16	3 7/8	3 1/8	3 1/2	5
26R44		270-0-270	200	5	3	6.3	8.5	AGF	2 11/16 x 3 5/16	4 1/4	3 1/8	3 3/4	6.2
26R49		270-0-270	200	5	3	12.6CT	4.5	AGF	2 1/2 x 3 1/8	3 5/8	3 1/8	3 3/4	5
26R115	9	270-0-270	300	5/3	3.8	6.3	10	GGV	2 1/2 x 2 5/8	3 3/4	3 1/8	3 7/8	5.5
26R118	9	270-0-270	300	5/3	3.8	6.3	10	GGV	2 1/4 x 3 1/4	3 1/2	2 13/16	4 3/8	5.5
26R116	9	270-0-270	300	5/3	3.8	6.3	10	AGF	3 5/16 x 2 11/16	2 9/16	3 3/4	3 1/8	5.5
26R117	9	270-0-270	300	5/3	3.8	12.6CT	6	AGF	3 5/16 x 2 11/16	2 3/4	3 3/4	3 1/8	5.7
26R119	9	272.5-0-272.5	300	5/3	3.8	6.3	11	GGV	2 3/4 x 2 3/4	4 1/8	3 7/16	3 1/2	5.7
26R120	9	272.5-0-272.5	300	5/3	3.8	6.3	11	AGF	3 7/16 x 2 3/4	2 5/8	4 1/8	3 7/16	5.7
25R45		275-0-275	35	6.3CT	.6	6.3CT	2	UTV	2 x 2 3/4	3 1/2	2 13/16	3 9/16	5
22R09		275-0-275	50	5	2	2.5CT	7.5	AGF	2 x 2 1/2	2 5/8	2 1/2	3	2
22R01		275-0-275	50	5	2	6.3CT	2.5	AGF	2 x 2 1/2	2 1/2	3	2 1/2	2.2
22R101	8	275-0-275	50	5	2	6.3CT	2.5	AGF	2 x 2 1/2	2 1/2	3	2 1/2	2.2
22R30		275-0-275	50	5	2	6.3CT	2.5	GGV	2 x 2 1/4	3 1/8	2 5/8	3 1/8	2.2
27R02	4	275-0-275 250-0-250	65 75	5	2	6.3CT	3	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	3.5
27R129		275-0-275	90	5	2	6.3	3.5	YY	2 1/8 x 2 5/8	4 1/2	3 1/32	3 17/32	6
22R98		275-0-275	110	5	2	6.3CT	5	GGV	2 1/2 x 2 1/4	3 7/8	3 1/4	3 1/8	4.5
24R56		275-0-275	110	5	2	6.3CT	5	GGV	2 1/4 x 2 1/8	3 1/2	3	3 1/4	3.7
22R99		275-0-275	110	5	2	6.3CT	5	AGF	3 1/8 x 2 1/2	2 1/4	3 3/4	3 1/8	4.5
24R57		275-0-275	110	5	2	6.3CT	5	AGF	2 13/16 x 2 1/4	2	3 3/8	2 13/16	3.7
26R41		275-0-275	220	5	3	6.3 7	8.5 .47	AGF	3 x 3 11/16	3 3/4	3 7/16	4 1/8	5

4 The ratings listed here are for industrial applications. For MIL-T-27A ratings refer to the MIL-T-27A (green) section of this catalog.

8 Primary 115/230 Volts 50/60 Cycles

9 Triple X grain oriented lamination – see the complete line of Triple X units on page 165

10 Primary 105/115/125 Volts 380/1000 Cycles

27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

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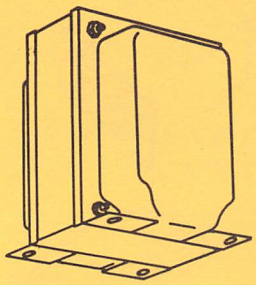
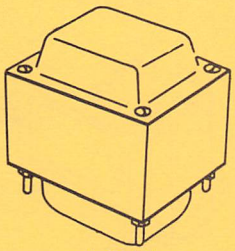


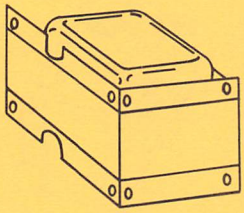
GGV

GRV-1

GRV-1 SAME AS GGV WITH TUBE SOCKET ON TOP.



AGF



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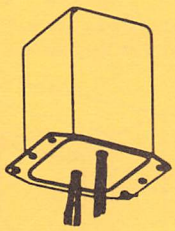
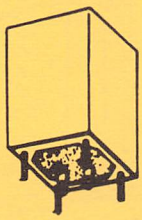


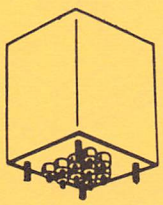
TAV

TTV

TTV SAME AS TAV BUT HAS LUGS.



UTV



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SEE PAGE 27

Power Transformers continued

PRIMARY 117 VOLT 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	✪Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26R11		275-0-275	270	5	3	6.3	10	AGF	3 x 3 3/4	2 3/4	4 1/2	3 3/4	9
26R77		275-0-275	270	5	3	6.3	10	AGF	2 3/4 x 3 7/16	3 1/8	4 1/8	3 7/16	9
26R43		275-0-275	275	5	3	12.6CT	6	GGV	2 1/2 x 3 1/8	3 3/4	3 1/8	4 3/8	7
26R121	9	275-0-275	300	5	6	6.3	8	AGF	3 1/8 x 2 1/2	3 13/16	3 3/4	3 1/8	7.5
						6.3	5	GGV	2 1/2 x 3 3/8	3 3/4	3 1/8	4 3/4	
						6.3	2	GGH	2 1/2 x 3 3/8	3 1/8	3 3/4	4 3/8	
26R56		275-0-275	310	5CT	3	6.3	12.6	ARF	3 5/16 x 4 1/16	5	3 3/4	4 1/2	8.2
26R79		275-0-275	350	5CT	6	6.3	8	AGF	3 x 3 3/4	3 3/8	4 1/2	3 3/4	12
						6.3	6						
						6.3	2						
26R80		275-0-275	350	5CT	6	6.3	8	ARF-1	3 x 3 3/4	3 3/8	4 1/2	3 3/4	12
						6.3	6						
						6.3	2						
26R58		276-0-276	315	5	6	6.3	11.5	AGF	3 3/16 x 4 1/16	5	3 3/4	4 1/2	8.2
26R50		279-0-279	265	5	5	6.3	7.1	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	8
						6.3	1.2						
						6.3	.9						
24R125		280-0-280	35	–	–	6.3CT	2.5	AGF	1 3/4 x 2 3/16	2 11/16	2 5/8	2 3/16	1.8
24R32		280-0-280	50	5	2	6.3	1.5	AGF	2 x 2 1/2	3	2 1/2	3	3.5
						6.3	.6						
26R89		280-0-280	260	5	3	6.3	8	ARF	3 x 3 3/4	5 1/8	4 1/2	3 3/4	11.2
						6.3	1.5						
						6.3	1.2						
26R90		280-0-280	260	5	3	6.3	8	AGF	3 x 3 3/4	5	4 1/2	3 3/4	11
						6.3	1.5						
						6.3	1.2						
26R122	9	280-0-280	280	5	3	6.3	9.5	AGF	3 1/8 x 2 1/2	3 1/16	3 3/4	3 1/8	7
								GGV	2 1/2 x 2 5/16	3 3/4	3 1/8	3 11/16	
								GGH	2 1/2 x 2 5/16	3 1/8	3 3/4	3 11/16	
26R123	9	280-0-280	300	5	4	6.3	10	GGV	2 11/16 x 3 3/16	3 3/4	3 1/8	3 7/8	7
26R72		280-0-280	400	5	6	6.3	4.5	AGF	3 3/16 x 4 1/16	6	3 13/16	4 3/4	13
						6.3	8.5						
26R51		281-0-281	250	5	3	6.3	9.5	LGH	2 3/8 x 2 1/2	4	3 7/16	4 1/8	6.2
26R61		282-0-282	240	5	3	6.3	8.7	AGF	3 3/16 x 4 1/16	4 1/4	3 3/4	4 1/2	6.5
26R124	9	285-0-285	300	5	3.8	12.6CT	5.2	GGV	2 1/2 x 2 3/4	3 3/4	3 1/8	3 5/8	7
26R125	9	285-0-285	300	5	3.8	12.6CT	5.2	AGF	2 5/16 x 2 11/16	2 3/4	3 3/4	3 1/8	7
24R127		288-0-288	25	–	–	6.3	2.7	BAH	3 1/8	2 1/4	3 5/8	2	1.3
26R98		290-0-290	200	5CT	3	6.3	1.2	ARF	2 3/4 x 3 7/16	4 9/16	3 7/16	4 1/8	6
						6.4	8.4						
26R12		290-0-290	270	5	3	6.3	10	AGF	3 x 3 3/4	2 7/8	4 1/2	3 3/4	9
26R127	9	290-0-290	300	5/3	3.8	6.3	10	GGV	2 3/4 x 2 3/4	3 3/4	3 1/8	4	7.5
26R128	9	290-0-290	300	5	3.8	6.3	10	AGF	3 5/16 x 2 11/16	2 13/16	3 3/4	3 1/8	7.5
26R129	9	290-0-290	300	5/3	3.8	6.3	10	GGH	3 5/16 x 3 9/16 or 2 1/2 x 3 9/16	3 1/8	3 3/4	4	7.5
26R130	9	290-0-290	300	5/3	3.8	6.3	11	GGH	3 7/16 x 2 5/8 or 3 7/16 x 3 1/4	3 7/16	4 1/8	3 1/2	7.6
26R40		292-0-292	285	5	3	6.3	8.5	AGF	2 3/4 x 3 7/16	4 3/8	3 1/2	4 1/8	7.3
26R131	9	292-0-292	300	5/3	3.8	6.3	11	GGV	2 3/4 x 2 3/4	4 1/8	3 7/16	3 3/4	7
26R132	9	292-0-292	300	5/3	3.8	6.3	11	AGF	3 7/16 x 2 3/4	2 3/4	4 1/8	3 7/16	7
26R137		295-0-295	225	5CT	3	6.3	11.4	ARF	3 5/16 x 4 1/16	4 5/8	3 3/4	4 1/2	10
						6.3	.9						
26R100		295-0-295	350	5	6	6.3	8	AGF	3 x 3 3/4	3 5/8	3 3/4	4 1/2	12
						6.3	5						
						6.3	2						
26R101		295-0-295	350	5	6	6.3	8	ARF-1	3 x 3 3/4	3 5/8	3 3/4	4 1/2	12
						6.3	5						
						6.3	2						
22R92		300-0-300	50	5	2	6.3CT	2	GGV	2 x 1 7/8	3 1/8	2 5/8	2 5/8	2.7
24R54		300-0-300	50	5	2	6.3CT	2	GGV	2 x 1 3/4	3 1/8	2 5/8	2 1/2	2
24R43		300-0-300	50	5	2	6.3CT	2.7	GGV	2 x 1 3/4	3 1/8	2 5/8	2 13/16	2.7
22R93		300-0-300	50	5	2	6.3CT	2	AGF	2 x 2 1/2	1 3/4	2 1/2	3	2.7
24R55		300-0-300	50	5	2	6.3CT	2	AGF	2 x 2 1/2	1 5/8	2 1/2	3	2
27R24		300-0-300	50	5	2	6.3CT	2.5	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	4.8
27R67		300-0-300	60	5	2	6.3CT	3	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	4.5
27R42		300-0-300	60	5	2	6.3CT	3	YY	2 3/8 x 2 1/8	4.242	3.245	2.979	4.5
25R03		300-0-300	60	5	2	6.3CT	3	TAV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	4.5
25R26		300-0-300	60	5	2	6.3CT	3	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	4.5
22R90		300-0-300	65	-	-	6.3CT	2.7	GGV	2 x 1 7/8	3 1/8	2 5/8	2 5/8	2.7
22R91		300-0-300	65	–	-	6.3CT	2.7	AGF	2 x 2 1/2	1 3/4	3	2 1/2	2.7
24R53		300-0-300	65	–	-	6.3CT	2.7	AGF	2 x 2 1/2	1 5/8	3	2 1/2	2
24R52		300-0-300	65	-	-	6.3CT	2.7	GGV	2 x 1 3/4	3 1/8	2 5/8	2 1/2	2
24R96		300-0-300	65	-	-	6.3CT	2.7	GGV	2 x 1 3/4	3 1/8	2 5/8	2 1/2	2.7
22R02		300-0-300	70	5	2	6.3CT	3	AGF	2 x 2 1/2	3 1/8	2 1/2	3	2.7
22R102	8	300-0-300	70	5	2	6.3CT	3	AGF	2 x 2 1/2	3 1/4	2 1/2	3	2.7
22R103		300-0-300	70	5	2	6.3CT	3	GGV	2 x 2	3 1/8	2 1/2	2 7/8	2.7

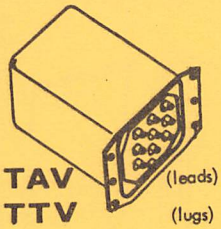
8 Primary 115/230 Volts 50/60 Cycles

9 Triple X grain oriented lamination — see the complete line of Triple X units on page 165

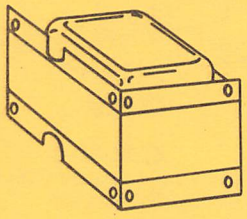
CONTINUED ON NEXT PAGE

✪ 27 SERIES GEO SERIES

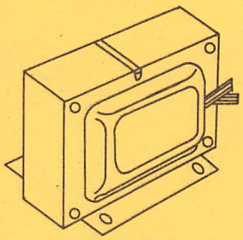
FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



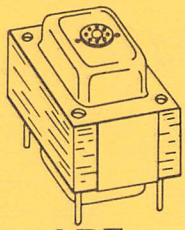
TAV (leads)
TTV (lugs)



GGH

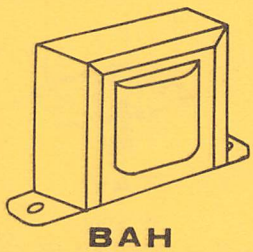


LGH



ARF
ARF-1

ARF-1 SAME AS ARF BUT WITH DOUB LE MOUNTED TUBE SOCKET



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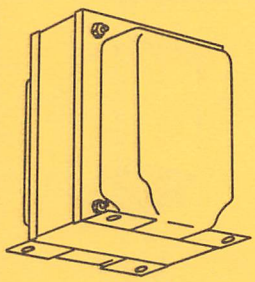

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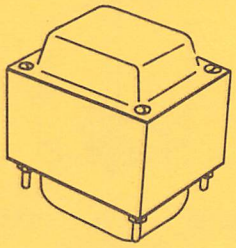

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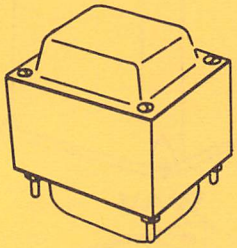
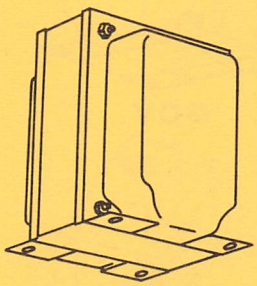


AGF



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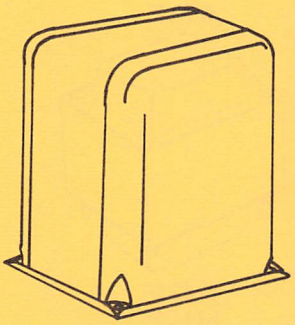
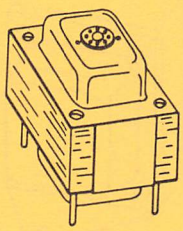


WAV



ARF

Power Transformers

Continued

PRIMARY 117 VOLTS 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	✪ Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24R21		300-0-300	70	5	3	6.3CT	3	AGF	2 1/4 x 2 13/16	3 1/4	2 13/16	3 3/8	4
24R21U		300-0-300	70	5	3	6.3CT	3	GGV	2 1/4 x 2 3/16	3 5/8	3	3 1/4	4
27R32	7	300-0-300	70	6.3/5	2	6.3CT 6.3	2 2	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	1.2
22R04		300-0-300	90	5	2	6.3CT	3.5	AGF	2 1/4 x 2 7/8	3 1/4	2 13/16	3 3/8	3
27R03	4	300-0-300 275-0-275	100 115	5	2	6.3CT	4.5	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	4.8
22R05		300-0-300	120	5	3	6.3CT	5	AGF	2 1/2 x 3 1/8	3 5/8	3 1/8	3 3/4	4.2
22R105	8	300-0-300	120	5	3	6.3CT	5	AGF	2 1/2 x 3 1/8	3 1/2	3 1/8	3 3/4	4.2
22R05U		300-0-300	120	5	3	6.3CT	5	GGV	2 1/2 x 2 9/16	3 7/8	3 1/4	3 3/8	4.2
22R104	8	300-0-300	120	5	3	6.3CT	5	GGV	2 1/2 x 2 9/16	3 7/8	3 1/4	3 3/8	4.2
27R33	7	300-0-300	120	6.3/5	3	6.3CT 6.3	3.5 3.5	JB	2 5/8 x 2 1/8	3 7/8	3 9/16	3 1/16	4.8
24R83		300-150-0 150-300	175	5	4	–	–	GGV	2 1/2 x 2 3/4	3 7/8	3 1/4	3 5/8	6
26R71		300-0-300	230	5	3	6.3	9	AGF	2 3/4 x 3 7/16	4 1/4	3 7/16	4 1/8	8
26R91		300-0-300	250	5	3	6.3 6.3	11.7 1.2	AGF	2 3/4 x 3 7/16	4 7/8	3 7/16	4 1/8	9.5
26R33		300-0-300 or 250-0-250	250 280	5 5	3 3	6.3 6.3	5 5	AGF	3 x 3 3/4	4 1/2	3 3/4	4 1/2	11
26R08		300-0-300	270	5	3	6.3 6.3 6.3	5 5 1.2	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	11
26R136		300-0-300	325	5	6	6.3 6.3	8.8 1.5	AGF	3 5/16 x 4 1/16	5 1/8	3 3/4	4 1/2	13
26R34		300-0-300	340	5	6	6.3 6.3 6.3	10.2 1.2 1.2	ARF-1	3 x 3 3/4	5 1/2	3 3/4	4 1/2	13
26R92		300-0-300	400	5	6	6.3 6.3 6.3	10 4.5 1.2	AGF	3 x 3 3/4	5 3/8	3 3/4	4 1/2	13.5
26R42		306-0-306	460	5	6	6.3 4.6	11.4 .150	AGF	3 1/2 x 4 3/8	4 3/4	4 3/8	5 1/4	11.5
26R138		310-0-310	240	5	3	6.3 6.3	6.4 3	AGF	3 5/16 x 4 1/16	4 1/2	3 3/4	4 1/2	9
26R135		315-0-315	225	5	3	6.3	8.25	ARF	3 5/16 x 4 1/16	4 1/2	3 3/4	4 1/2	9
26R93		315-0-315	310	5	6	6.3 6.3 6.3 6.3	6 6 1.2 1	AGF	3 x 3 3/4	5	3 3/4	4 1/2	11
24R37		320-0-320	150	5	3	6.3 6.3 6.3	3 8 1	GGV	3 x 3 3/16	4 3/4	4	4 1/4	9.5
26R24		322-0-322 205-0-205	180 70	5CT	3	6.3 6.3	10 3	ARF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.2
22R13		325-0-325	40	5	2	2.5	4	AGF	2 x 2 1/2	2 3/4	2 1/2	3	2.5
24R01		325-0-325	40	5	2	6.3CT	2	AGF	2 x 2 1/2	2 7/8	2 1/2	3	2.5
24R128	8	325-0-325	40	5	2	6.3CT	2	AGF	2 x 2 1/2	2 7/8	2 1/2	3	2.5
24R01U		325-0-325	40	5	2	6.3CT	2	GGV	2 x 1 3/4	3 1/8	2 5/8	2 5/8	2.5
24R08		325-0-325	55	5	2	6.3CT	2	AGF	2 x 2 1/2	3 1/8	3	2 1/2	3.2
24R08U		325-0-325	55	5	2	6.3CT	2	GGV	2 x 2	3 1/8	2 1/2	3 1/8	3.2
24R17		325-0-325	70	5	3	6.3	3.5	AGF	2 x 2 1/2	3 3/8	3	2 1/2	3.2
27R87	6	325-0-325	70	6.3/5	2	6.3	4	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	5
22R37		325-0-325	80	5	2	6.3 6.3	1.2 .3	AGF	2 x 2 1/2	3 1/2	3	2 1/2	3.5
22R10		325-0-325	85	5	2	2.5CT 2.5CT	9 3.5	AGF	2 1/2 x 3 1/8	3 3/8	3 1/8	3 3/4	3.2
22R11		325-0-325	120	5	3	2.5CT 2.5CT	5 12.5	AGF	2 1/2 x 3 1/8	4 1/8	3 1/8	3 3/4	5.5
22R14		325-0-325 77V. Bias Tap	135	5 5	3 2	6.3CT 6.3CT	2 4	WAV	3 3/4 x 4 5/8	5 3/4	4 5/8	5 5/8	12.7
22R06		325-0-325	150	5	3	6.3CT	5	AGF	2 1/2 x 3 1/8	3 3/4	3 1/8	3 3/4	5.5
22R106	8	325-0-325	150	5	3	6.3CT	5	GGV	2 1/2 x 2 5/8	3 7/8	3 1/8	3 3/4	5.5
24R87	1	325-0-325	150	5	3	6.3CT	5	GGV	2 1/2 x 2 9/16	4	3 1/8	3 3/4	5.8
27R88	6	325-0-325	150	5	3	6.3	5	KB	3 x 2 7/16	4 5/16	3 3/8	3 15/16	7.2

1 MADC rating for choke input filter. For capacitor input filter divide MADC rating by 1.30

4 The ratings listed here are for industrial applications. For MIL-T-27A ratings refer to the MIL-T-27A (green) section of this catalog.

6 Primary 105/115/125 54/64 Cycles.

7 Primary 115 Volts 380/1500 Cycles.

8 Primary 115/230 Volts 50/60 Cycles.

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

ARF-1

ARF-1 SAME AS ARF BUT WITH DOUBLE MOUNTED TUBE SOCKET

Power Transformers Continued

PRIMARY 117 VOLTS, 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24R129	8	325-0-325	225	5	2	6.3CT	2	GGV	2 x 2	3 1/8	2 1/2	3	2.4
26R04		325-0-325	240	5	3	6.3 6.3 6.3	9 1.2 .9	AGF	3 x 3 3/4	3 11/16	4 1/2	3 3/4	13
26R07		325-0-325	240	5	3	6.3 6.3 6.3	9 1.2 .9	ARF	3 x 3 3/4	3 11/16	4 1/2	3 3/4	13
26R45		328-0-328	270	5	3	12.6CT	5.25	GGV-1	3 x 4 7/16	4 5/8	3 3/4	4 13/16	8
27R69		330-0-330	85	5	2	6.3CT	3	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	6
27R44		330-0-330	85	5	2	6.3CT	3	YY	2 5/8 x 2 3/8	4.305	3.667	3.292	6
27R109	10	330-0-330	85	5	2	6.3CT	3	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	1.7
25R05		330-0-330	85	5	2	6.3CT	3	TAV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6
25R28		330-0-330	85	5	2	6.3CT	3	TTV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6
24R130		330-0-330	90	5	2	6.3	1.5	AGF	2 1/4 x 2 13/16	4 3/16	3 3/8	2 13/16	4.5
26R102		330-0-330	270	5	6	6.3 6.3	9.35 1.2	GGV	3 x 3 5/8	4 5/8	4	4 3/4	10
27R68		335-0-335	70	5	2	6.3CT	3	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	4.5
27R43		335-0-335	70	5	2	6.3CT	3	YY	2 3/8 x 2 1/8	4.242	3.245	2.979	4.5
27R95	10	335-0-335	70	5	2	6.3CT	3	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	1.7
27R108	10	335-0-335	70	5	2	6.3CT	3	GB	2 1/8 x 1 3/4	2 13/16	2 3/8	2 3/4	1.7
27R115	10	335-0-335	70	5	2	6.3CT	3	YY	1 9/16 x 1 3/8	2.93	2.241	2.101	1.7
25R04		335-0-335	70	5	2	6.3CT	3	TAV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	4.5
25R27		335-0-335	70	5	2	6.3CT	3	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	4.5
27R04	4	335-0-335 300-0-300	110 120	5	2	6.3CT	6	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	4.5
26R64		335-0-335	175	5	2	6.3 6.3	7 1.2	GGV	3 x 2 13/16	4 5/8	3 3/4	3 7/8	8.2
26R03		337-0-337	185	5	3	6.3 6.3	7 2	AGF	3 x 3 3/4	3 5/8	3 3/4	4 1/2	8
24R23	11	337-0-337	200	5CT	3	6.3CT	5	GGV	3 x 3 5/16	4 3/4	4	4 1/4	9.5
24R58		340-0-340	70	5	2	6.3CT	2.5	GGV	2 x 2 1/8	3 1/8	2 5/8	2 7/8	3.5
24R59		340-0-340	70	5	2	6.3CT	2.5	AGF	2 1/2 x 2	2 3/4	3	2 1/2	3.5
27R134		340-0-340	75	5	3	–	–	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	6
26R78		340-0-340	190	5	3	6.3 6.3	7.8 1.2	AGF	4 1/16 x 3 3/16	4 1/2	4 1/2	3 3/4	11
26R70		340-0-340	335	5	6	6.3 6.3 6.3	2.5 5 5	AGF	4 1/16 x 3 3/16	6	4 1/2	3 3/4	13
26R94		340-0-340	360	5	6	6.3 6.3 6.3	2.5 5 5	AGF	3 x 3 3/4	5 3/8	4 1/2	3 3/4	12.5
26R57		344-0-344	290	5	6	6.3 6.3 6.3	9.5 1.65 2.4	AGF	4 1/16 x 3 3/16	5 7/16	4 1/2	3 3/4	12.3
27R70		345-0-345	105	5	2	6.3CT	3.5	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	6.5
27R45		345-0-345	105	5	2	6.3CT	3.5	YY	2 5/8 x 2 3/8	4.68	3.667	3.292	6.5
27R110	10	345-0-345	105	5	2	6.3CT	3.5	GA	2 1/8 x 1 3/4	3 13/16	2 3/4	2 3/8	2.2
25R06		345-0-345	105	5	2	6.3CT	3.5	TAV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6.5
25R29		345-0-345	105	5	2	6.3CT	3.5	TTV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6.5
25R07		350-0-350	30	5	2	6.3CT	2	TAV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.2
25R30		350-0-350	30	5	2	6.3CT	2	TTV	2 x 3 1/8	3 1/2	2 7/8	3 1/2	3.2
27R75	1	350-0-350	55	5	2	6.3CT	2	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	3.3
27R50	1	350-0-350	55	5	2	6.3CT	2	YY	2 x 1 7/8	3.742	2.861	2.711	3.3
24R33		350-0-350	70	5CT	2	2.5CT	9	AGF	2 1/4 x 2 13/16	3 5/8	3 13/16	3 3/8	3.7
24R41		350-0-350	70	5	3	6.3CT	3	AGF	2 x 2 1/2	3 5/8	3	2 1/2	3.5
24R02		350-0-350	70	5	2	6.3CT	2.5	AGF	2 1/4 x 2 7/8	3 5/8	3 3/8	2 7/8	3.8
24R131		350-0-350	70	5	2	6.3CT	2.5	HKF	2 1/4 x 2 7/8	3 1/4	3 3/8	2 7/8	3.8
24R44		350-0-350	70	5	3	6.3CT	3	GGV	2 x 2 3/8	3 1/4	2 5/8	3 7/16	3.5
24R02U		350-0-350	70	5	2	6.3CT	2.5	GGV	2 1/4 x 2 1/8	3 1/2	2 7/8	3 1/2	3.8
24R132	8	350-0-350	70	5	2	6.3CT	2.5	GGV	2 1/4 x 2 1/8	3 1/2	2 7/8	3 1/2	3.8
24R93		350-0-350	70	5	3	6.3CT 2.5CT	3 9	GGV	2 1/2 x 1 13/16	4	3 1/4	3	3.8
27R61		350-0-350	70	5	3	6.3CT	3	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	4.5
27R121	10	350-0-350	70	5	3	6.3	3	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	3.3
22R16		350-0-350	85	5	2	6.3CT	2.25	WAV	3 1/8 x 3 5/8	4 7/8	3 3/4	4 1/4	7.2
24R34		350-0-350	90	5CT	3	2.5CT	12.5	AGF	2 1/2 x 3 1/8	3	3 1/8	3 3/4	4.2
24R40		350-0-350	90	5CT	3	2.5CT	3	AGF	2 1/4 x 2 13/16	3 3/4	2 13/16	3 3/8	4.5
24R40U		350-0-350	90	5CT	3	2.5CT	3	GGV	2 1/4 x 2 3/8	3 5/8	3	3 5/8	4.5
24R04		350-0-350	90	5CT	3	2.5CT	3.5	AGF	2 1/4 x 2 7/8	4	2 7/8	3 3/8	4.5
24R04U		350-0-350	90	5CT	3	2.5CT	3.5	GGV	2 1/4 x 2 5/8	3 1/2	2 7/8	3 7/8	4.5

1 MADC rating for choke input filter. For capacitor input filter divide MADC rating by 1.30

4 The ratings listed here are for industrial applications. For MIL-T-27A ratings refer to the MIL-T-27A (green) section of this catalog.

8 Primary 115/230 Volts 50/60 Cycles.

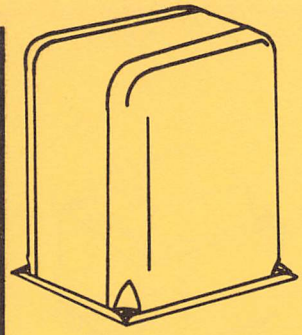
10 Primary 105/115/125 Volts 380/1000 Cycles.

11 Primary 107/117 Volts 50/60 Cycles.

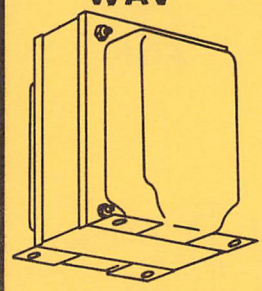
CONTINUED NEXT PAGE

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



WAV



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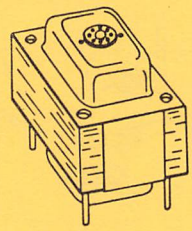

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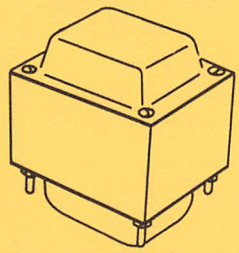
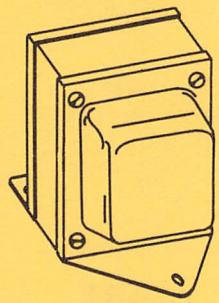


AGF
HKF

HKF SAME AS AGF BUT WITH LUGS



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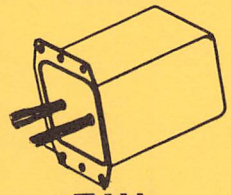

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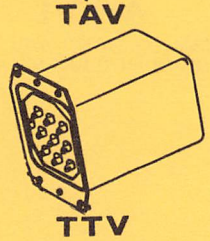

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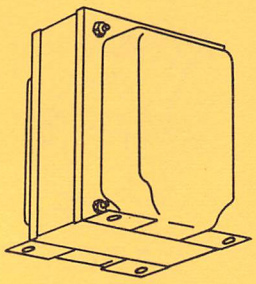

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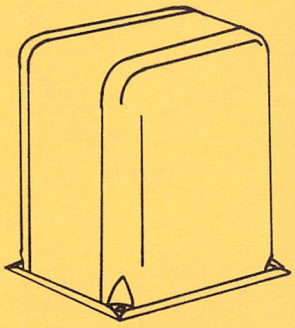

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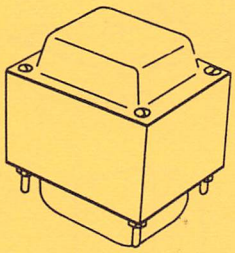

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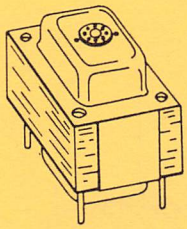

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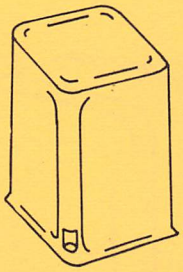


VAV

Power Transformers

continued PRIMARY 117 VOLT 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	✪Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
22R108	8	350-0-350	90	5CT	3	2.5CT	3.5	GGV	2 1/4 x 2 5/8	3 1/2	2 7/8	3 3/4	4.5
22R109		350-0-350	90	5CT	3	2.5CT	3.5	GGV	2 3/4 x 2 5/16	4 1/4	2 3/16	3 1/2	4.4
22R32		350-0-350	110	5CT	2	6.3CT 6.3CT	3 3	GGV	2 1/2 x 2 3/4	3 7/8	3 1/4	4	5.8
22R110	8	350-0-350	110	5CT	2	6.3CT 6.3CT	3 3	GGV	2 1/2 x 2 3/4	3 7/8	3 1/4	4	5.8
22R15		350-0-350	110	5CT	2	6.3CT 6.3CT	3 3	WAV	3 1/2 x 3 5/8	5 1/2	4 1/8	4 1/4	8.1
22R111	6	350-0-350	110	5CT	3	6.3CT	4.5	GGV	3 x 2 5/16	4 5/8	3 3/4	3 3/8	4.5
24R134		350-0-350	110	–	–	6.3CT 12.6	5 2.4	GGV	2 1/2 x 2 3/4	3 7/8	3 1/8	3 7/8	5.5
24R36		350-0-350	120	5CT	3	2.5CT 2.5CT	3.5 12.5	AGF	2 3/4 x 3 7/16	3 5/8	3 7/16	4 1/8	5.5
24R05		350-0-350	120	5	3	6.3CT	4.7	AGF	2 1/2 x 3 1/8	4 1/8	3 1/8	3 3/4	5.7
24R05U		350-0-350	120	5	3	6.3CT	4.7	GGV	2 3/4 x 2 1/2	3 7/8	3 1/4	3 7/8	5.7
24R135	8	350-0-350	120	5	3	6.3CT	4.7	GGV	2 3/4 x 2 1/2	3 7/8	3 1/4	3 7/8	5.7
27R25		350-0-350	120	5	3	6.3CT	5	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8	9.5
24R18		350-0-350	150	5	3	6.3	6.5	GGV	2 1/2 x 2 7/8	3 7/8	4 1/4	4 1/8	6
27R34	7	350-0-350	150	6.3/5	3	6.3CT	4	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	3.7
27R26		350-70-0-350	150	5	3	6.3CT 6.3	6 2	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10.7
24R60		350-0-350	160	5	3	6.3CT	5	GGV	2 1/2 x 2 5/8	3 7/8	3 9/32	3 1/2	5.7
24R61		350-0-350	160	5	3	6.3CT	5	AGF	3 1/8 x 2 1/2	2 5/8	3 3/4	3 1/8	5.6
24R98		350-0-350	175	5 5	3 2	6.3 6.3	7 .9	AGF	3 x 3 3/4	4 1/8	3 3/4	4 1/2	8.5
26R74		350-0-350 220-0-220	180 70	5	3	6.3 6.3	10 2	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.5
22R07		350-0-350	200	5	3	6.3CT	6	AGF	3 x 3 3/4	3 7/8	3 3/4	4 1/2	7
22R88		350-0-350	200	5	3	6.3CT	8	AGF	3 7/16 x 2 3/4	3 1/8	4 1/8	3 7/16	8
22R107	8	350-0-350	200	5	3	6.3CT	6	AGF	3 x 3 3/4	3 7/8	3 3/4	4 1/2	7
24R65		350-0-350	200	5	3	6.3CT	8	AGF	3 7/16 x 2 3/4	2 7/8	4 1/8	3 7/16	8
22R87		350-0-350	200	5	3	6.3CT	8	GGV	2 3/4 x 3 1/4	4 1/4	3 5/8	4 3/8	8
22R112		350-0-350	200	5	3	6.3CT	6	GGV	3 x 2 9/16	4 5/8	3 3/4	3 5/8	7
24R64		350-0-350	200	5	3	6.3CT	8	GGV	2 3/4 x 3	4 1/4	3 5/8	4 1/8	8
26R99		350-0-350	200	5	3	6.3 6.3 6.3	6 4 2	AGF	3 x 3 3/4	2 5/8	3 3/4	4 1/2	9
26R25U		350-0-350	200	5 5	3 3	6.3 6.3	7 .6	GGV	3 x 3 3/4	4 5/8	3 7/8	4 7/8	11.2
26R20		350-0-350	225	5CT	3	6.3 6.3	10.7 2.7	ARF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.5
26R21		350-0-350	225	5	3	6.3 6.3	10 2.7	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.5
27R91	6	350-0-350	250					KB	3 x 2 7/16	4 5/16	3 3/4	3 15/16	7.2
26R69		350-0-350	270	5 5	2 6	6.3 6.3	7.8 1.6	AGF	3 x 3 3/4	5 1/4	3 3/4	4 1/2	13.1
27R122	10	350-0-350	300	5	5	6.3	5	KB	3 x 2 7/16	4 5/16	3 3/4	3 15/16	5.2
26R54		356-0-356 268-0-268	180 148	5 5	3 3	12.6CT	6	GGV	3 x 4	4 1/2	3 3/4	5	11.6
26R73		356-0-356	295	5 5	2 6	12.6	5	AGF	3 3/16 x 4 1/16	6 5/8	3 13/16	4 3/4	17.2
26R62		356-0-356	458	5	6	6.3 6.3	14.5 2	VAV	3 5/16 x 4 1/16	4 3/4	4 7/8	4	11
22R31		360-0-360	80	5	2	6.3CT	2.5	GGV	2 x 2 3/4	3 1/8	2 9/16	4	4
24R22		360-0-360	120	5	3	6.3CT	3.5	AGF	2 1/2 x 3 1/8	3 3/4	3 1/8	3 3/4	5.5
24R22U		360-0-360	120	5	3	6.3CT	3.5	GGV	2 1/2 x 2 7/16	3 7/8	3 1/4	3 3/4	5.5
26R23		360-0-360	180	5	3	6.3	9	AGF	2 3/4 x 3 1/2	4 1/4	3 1/2	4 1/8	8
26R22		360-0-360	180	5CT	3	6.3	9	ARF	2 3/4 x 3 1/2	4 1/4	3 1/2	4 1/8	8
26R82		360-0-360 165-0-165	185 65	5	3	6.45	12	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	9.6
26R96	12	360-0-360 165-0-165	185	5	3	6.3	12	AGF	3 x 3 3/4	4 3/8	3 3/4	4 1/2	10.5
26R65		360-0-360	200	5	3	6.3 6.3	1.2 7.75	AGF	3 3/16 x 4 1/16	5 9/16	3 13/16	4 3/4	10
26R141		360-0-360 220-0-220	220 110	5 5	2 3	12.6CT	5.8	GGV	3 x 3 7/8	4 7/8	3 3/4	5 1/4	11.5
26R17		360-0-360	250	5 5	3 3	6.3 6.3	9 3	AGF	3 x 3 3/4	5 1/8	3 3/4	4 1/2	11

3 MADC rating for bridge rectifier circuits. Reduce secondary current 10% for 50 cycle operation.
6 Primary 105/115/125 54/64 Cycles.
7 Primary 115 Volts 380/1500 Cycles.
8 Primary 115/230 Volts 50/60 Cycles.
10 Primary 105/115/125 Volts 380/1000 Cycles.
12 Isolated high voltage secondaries.
✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Power Transformers Continued

PRIMARY 117 VOLT 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26R15		360-0-360	250	5 5	3 3	6.3 6.3	9 3	AGF	3 x 3 3/4	5 1/8	3 3/4	4 1/2	11
26R68		360-0-360	250	5 5	2 3	6.3 6.3	8 .6	AGF	3 3/16 x 4 1/16	5 5/16	3 3/4	4 1/2	11.5
26R134		360-0-360	260	5 5	6 2	6.3	8.85	AGF	3 3/16 x 4 1/16	5 1/2	3 3/4	4 1/2	13
26R35		360-0-360	270	5 5	3 3	6.3 6.3 6.3 6.3	4.5 4.5 1.6 2.5	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	10
26R16		362-0-362	295	5 5	2 6	12.6CT	5	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	10.7
24R94		365-0-365 200-0-200	210 90	5 5	2 6	6.3 6.3	5 5	AGF	3 x 3 3/4	5 7/8	3 3/4	4 1/2	16
26R133		365-0-365	270	5	6	6.7	4.5	AGF	3 3/16 x 4 1/16	4 7/8	3 3/4	4 1/2	10
26R01		367.5-0-367.5	275	5 6.3/5	6 2	6.3CT	8.5	AGF	3 x 3 3/4	3 7/8	3 3/4	4 1/2	13
27R72		370-0-370	150	5	3	6.3CT 6.3CT	4 1	MA	3 x 3 11/16	6	4	4 11/16	11.5
27R47		370-0-370	150	5	3	6.3CT 6.3CT	4 1	YY	3 3/8 x 3	5.318	4.573	4.12	11.5
27R111	7	370-0-370	150	5	3	6.3CT 6.3CT	4 1	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	5
25R09		370-0-370	150	5	3	6.3CT 6.3CT	4 1	TAV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	11.5
25R32		370-0-370	150	5	3	6.3CT 6.3CT	4 1	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	11.5
26R83		370-0-370	190	5	3	6.3 6.3	7.75 1.2	AGF	3 x 3 3/4	4 9/16	3 3/4	4 1/2	10.8
26R46		370-0-370	190	5	3	6.3 6.3	7.9 1.2	AGF	3 3/16 x 4 1/16	5 3/16	3 3/4	4 1/2	11.2
24R24		370-0-370	275	5CT	3	6.3CT	7	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	9.5
27R71		375-0-375	120	5	3	6.3CT	4	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	9.5
27R46		375-0-375	120	5	3	6.3CT	4	YY	2 5/8 x 2 3/8	4.68	3.667	3.292	9.5
27R96	10	375-0-375	120	5	3	6.3CT	4	HA	2 1964 x 1 55/64	4 1/4	2 5/8	3 1/16	2.5
27R116	10	375-0-375	120	5	3	6.3CT	4	YY	2 x 1 7/8	3.742	2.861	2.711	2.5
25R08		375-0-375	120	5	3	6.3CT	4	TAV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	9.5
25R31		375-0-375	120	5	3	6.3CT	4	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	9.5
24R06		375-0-375	150	5	3	6.3CT	4.7	AGF	2 3/4 x 3 1/2	3 7/8	3 7/8	4 1/8	6.2
24R06U		375-0-375	150	5	3	6.3CT	4.7	GGV	2 3/4 x 2 7/8	4 1/4	3 1/2	4	6.2
24R137		375-0-375	150	5	3	6.3CT	4.7	GGV	2 3/4 x 2 7/8	4 1/4	3 1/2	4	6.2
24R138		375-0-375	150	5	3	12.6CT	2.5	AGF	2 3/4 x 3 7/16	3 7/8	3 1/2	4	5.5
27R05	4	375-0-375 350-0-350	150 160	5	4	6.3CT 6.3CT	6 1.5	KA	3 x 2 7/16	5 1/4	3 3/4	3 15/16	9.5
22R17		375-0-375	160	5	3	12.6CT	3.5	WAV	3 3/4 x 4 5/8	5 3/4	4 5/8	5 3/8	12.2
22R33		375-0-375	160	5	3	6.3CT	5	GGV	2 7/8 x 3	4 5/8	3 7/8	4	7.5
22R68		375-0-80-375	160	5	3	6.3CT 2.5CT	5 5	GGV	2 3/4 x 3 1/8	4 1/4	3 5/8	4 1/4	7.2
26R18		375-0-375 325-0-325	170 130	5 5 5	3 3 2	12.6CT 6.3	5 2.6	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.5
24R48		375-0-375	175	5	3	6.3CT	8	GGV	2 3/4 x 3 1/4	4 1/4	3 5/8	4 3/8	8.5
24R62		375-0-375	175	5	3	6.3CT	8	GGV	2 3/4 x 2 7/8	4 1/4	3 5/8	4	7.4
24R49		375-0-375	175	5	3	6.3CT	8	AGF	3 7/16 x 2 3/4	3 1/8	4 1/8	3 7/16	8.5
24R63		375-0-375	175	5	3	6.3CT	8	AGF	3 7/16 x 2 3/4	2 3/4	4 1/8	3 7/16	7.4
24R95		375-0-375	180	5CT	3	6.3CT 2.5CT	3.3 6	AGF	2 3/4 x 3 7/16	3 3/8	4 1/8	3 7/16	8.2
22R66		375-80-0-375	200	5	3	6.3CT 2.5CT	6 10	GGV	3 x 3 3/8	4 5/8	4	4 1/2	9
26R84		375-0-375	205	5 5	3 2	6.3	5.6	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	9.1
27R06	4	375-0-375 350-0-350	210 230	5	4	6.3CT 6.3CT	6 2	LA	3 5/16 x 2 11/16	5 9/16	3 11/16	4 5/16	10
26R85		375-0-375	225	5CT	3	6.3 6.3	9 2	ARF	3 x 3 3/4	5	3 3/4	4 1/2	10.5
26R66		378-0-378	205	5	3	6.3 6.3	9.5 1.2	GGV	3 x 3 9/16	4 5/8	3 3/4	4 5/8	10.8
26R97		380-0-380	180	5	3	6.3	9	ARF	2 3/4 x 3 7/16	5 1/2	3 7/16	4 1/8	9.7
26R86		380-0-380	220	5	3	6.3 6.3 6.3	7 5 1.2	GGV	3 x 3 9/16	4 3/4	4	4 3/4	10.5
26R95		380-0-380	250	5	3	6.3 6.3 6.3	7 5 1.2	AGF	3 x 3 3/4	5	3 3/4	4 1/2	10.5

4 The ratings listed here are for industrial applications. For MIL-T-27A ratings refer to the MIL-T-27A (green) section of this catalog.

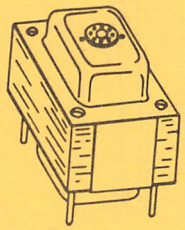
7 Primary 115 Volts 380/1500 Cycles.

10 Primary 105/115/125 Volts 380/1000 Cycles.

CONTINUED NEXT PAGE

27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.



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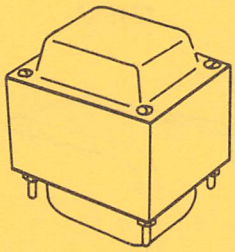

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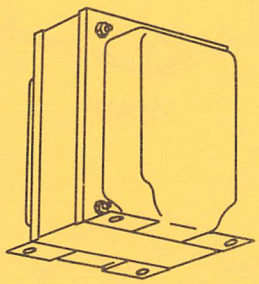

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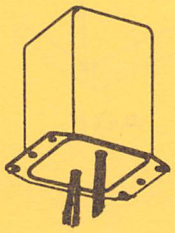

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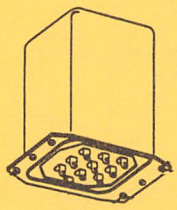

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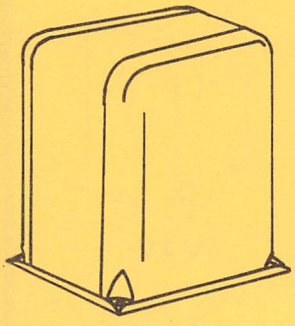

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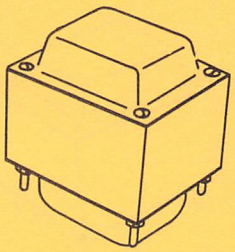

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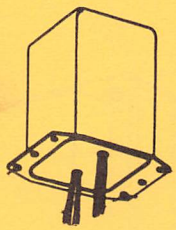

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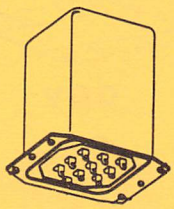

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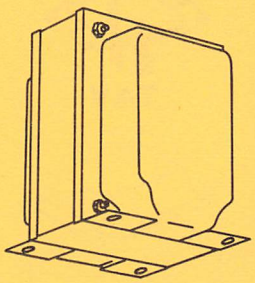

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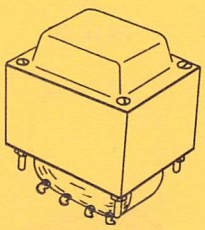
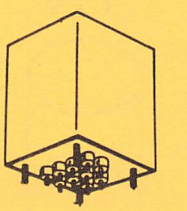


HKF



MB MA LB

SEE PAGE 27

Power Transformers

Continued PRIMARY 117 VOLT 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24R42		385-0-385	160	5	3	6.3CT	5	AGF	2 1/2 x 3 1/8	4 5/16	3 3/4	3 1/8	7
26R87		385-0-385 235-0-235	195 105	5 5 5	2 3 2	6.3 6.3	7.65 .6	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11
27R73		385-0-385	200	5	3	6.3CT 6.3CT	4.5 1	MA	3 x 3 11/16	6	4	4 11/16	12
27R48		385-0-385	200	5	3	6.3CT 6.3CT	4.5 1	YY	3 3/8 x 3	5.318	4.573	4.12	12
25R10		385-0-385	200	5	3	6.3CT 6.3CT	4.5 1	TAV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	12
25R33		385-0-385	200	5	3	6.3CT 6.3CT	4.5 1	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	12
22R34		385-0-385	225	5	3	6.3	5	GGV	3 x 3 5/16	4 5/8	3 7/8	4 3/8	9.2
22R113	8	385-0-385	225	5	3	6.3	5	GGV	3 x 3 5/16	4 5/8	3 7/8	4 3/8	9.2
26R67		385-0-385	230	5 5	3 2	6.3	9	AGF	3 3/16 x 4 1/16	5 9/16	3 13/16	4 3/4	12
26R140		385-0-385	230	5 5	3 2	6.3 6.45	1.2 7.4	AGF	3 3/16 x 4 1/16	5 9/16	3 3/4	4 1/2	13
26R103		388-0-388	275	5	6	6.3 6.3	8.5 1.2	GGV	3 x 4 1/8	4 3/4	3 7/8	5 1/4	10
26R104		388-0-388	230	5 6.3/5	3 2	6.3	9	AGF	3 x 3 3/4	3 7/16	3 3/4	4 1/2	10
26R02		390-0-390 or 220-0-220	300	5 5 5	3 3 2	6.3 6.3	8.5 3.5	AGF	3 x 3 3/4	5	3 3/4	4 1/2	14
26R27U		390-0-390 325-0-325	160 130	5 5 5	3 3 3	6.3 6.3	8 4	AGF	3 x 3 3/4	4 5/8	3 3/4	4 1/2	12
27R07	4	395-0-395 360-0-360	210 225	5	4	6.3CT 6.3CT	7.5 2	MB	3 x 3 11/16	4 15/16	4	4 11/16	13
26R05		395-0-395 or 325-0-325	310	5 5	3 2	6.3 6.3	5 5	AGF	3 x 3 3/4	4 1/8	3 3/4	4 1/2	11
26R06		395-0-395 or 325-0-325	310	5 5	3 2	6.3 6.3 6.3	5 5 2.6	GGV	3 x 4 3/8	4 3/4	3 7/8	5 1/2	13
24R66		400-0-400	30	5	2	6.3 6.3	1.2 1.2	GGV	2 x 2 3/8	3 1/8	2 5/8	3 1/8	3
24R76		400-0-400 and 800	30 5	5 5	2 2	6.3CT 6.3 6.3	3 1 .6	HKF	3 1/8 x 2 1/4	2 5/8	3 3/4	3 1/8	4.5
24R78	13	400-0-400 and 650	70 3	1.25	.3	6.3CT 6.3	3.5 .6	GGV	2 1/4 x 2 5/8	3 1/2	3	3 3/4	5
24R35		400-0-400	110	5CT	3	2.5CT 2.5CT	3.5 15	AGF	2 1/2 x 3 1/8	3 3/8	3 1/8	3 3/4	5.5
24R140		400-0-400	125	5	2	6.3CT	2.5	GGV	2 1/2 x 2 3/8	3 7/8	3 1/8	3 1/2	4.2
24R45		400-0-400	140	5	3	6.3CT	4	GGV	2 3/4 x 2 1/2	4 1/4	3 5/8	3 5/8	5.7
24R26		400-0-400	175	5	3	6.3	4.5	AGF	3 x 3 3/4	3 7/8	3 3/4	4 1/2	8
24R26U		400-0-400	175	5	3	6.3	4.5	GGV	3 x 2 13/16	4 3/4	4	4	8
24R38		400-0-400 80V. Bias Tap	175	5CT	3	2.5 6.3CT 6.3CT	1.75 2.5 2.5	GGV	3 x 2 13/16	4 3/4	4	3 7/8	8.2
27R89	6	400-0-400	175	5	3	6.3	8	LB	3 5/16 x 2 11/16	4 1/2	3 11/16	4 5/16	10
26R139		400-0-400 330-0-330	180 180	5 5	3 3	–	–	GGV	3 x 3 1/2	4 5/8	3 3/4	4 3/4	11
24R07		400-0-400	200	5	3	6.3CT	5	AGF	3 x 3 3/4	4 1/2	3 3/4	4 1/2	9.2
24R142	8	400-0-400	200	5	3	6.3CT	5	AGF	3 x 3 3/4	4 1/2	3 3/4	4 1/2	9.2
24R07U		400-0-400	200	5	3	6.3CT	5	GGV	3 x 3 3/8	4 5/8	3 3/4	4 1/2	9.2
24R141	8	400-0-400	200	5	3	6.3CT	5	GGV	3 x 3 3/8	4 5/8	3 3/4	4 1/2	9.2
24R39		400-0-400	200	5	3	6.3CT 18) 24) 50 W. 50)	5.3	AGF	3 x 3 3/4	4 1/8	3 3/4	4 1/2	7.7
27R36	7	400-300-0- 300-400	200	6.3/5	6	6.3CT 6.3	6 6	KB	3 x 2 7/16	5 1/4	3 15/16	3 3/8	7.5
27R28		400-350-0- 70-350-400	200	5	6	6.3CT 6.3	6 4	MA	3 x 3 11/16	6	4	4 11/16	15

4 The ratings listed here are for industrial applications. For MIL-T-27A ratings refer to the MIL-T-27A (green) section of this catalog.

6 Primary 105/115/125 54/64 Cycles.

7 Primary 115 Volts 380/1500 Cycles.

8 Primary 115/230 Volts 50/60 Cycles.

13 Exact replacement for Heathkit Model 0-12 scope.

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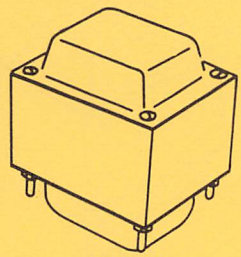
✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Power Transformers continued

PRIMARY 117 VOLT 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	✪ Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26R19		400-0-400 212-0-212	220 90	5 5	3 2	6.3 6.3	10 2.6	AGF	3 x 3 3/4	4 3/4	3 3/4	4 1/2	11.7
26R75		400-0-400 212-0-212	220 90	5 5 5	3 3 2	6.3 6.3	10 2.6	AGF	3 x 3 3/4	5 1/4	3 3/4	4 1/2	11.9
24R03		400-0-400	250	5	4	6.3CT	5	GGV	3 x 3 5/16	4 5/8	3 7/8	4 3/8	8
24R143	8	400-0-400	250	5	4	6.3CT	5	GGV	3 x 3 5/16	4 5/8	3 7/8	4 3/8	8
27R74		400-80-0- 80-400	250	5 5	6 2	6.3CT	7	NA	4 1/16 x 3 5/16	6 13/16	4 5/16	5 1/16	15
27R49		400-80-0- 80-400	250	5 5	6 2	6.3CT	7	YY	3 3/8 x 3	6.068	5.323	4.792	15
25R11		400-80-0- 80-400	250	5 5	6 2	6.3CT	7	TAV	3 1/2 x 5 3/8	6 1/16	5 1/16	5 7/8	15
25R34		400-80-0- 80-400	250	5 5	6 2	6.3CT	7	TTV	3 1/2 x 5 3/8	6 1/16	5 1/16	5 7/8	15
27R08	4	400-0-400 365-0-365	290 300	5	6	6.3 6.3	6 2	NB	4 1/16 x 3 5/16	5 1/2	5 1/16	4 5/16	16
22R64		400-0-400	300	5	6	6.3CT	6	GGV	3 x 3 3/8	4 5/8	4	4 1/2	11
22R65		400-0-400	300	5	6	6.3CT	6	AGF	3 x 3 3/4	4 1/4	3 3/4	4 1/2	11
26R26U		400-0-400	300	5 5	3 6	12.6CT	10	GGV	3 1/2 x 4 1/4	5 1/2	4 5/8	5 3/4	10.2
27R37	7	400-300-0- 300-400	300	6.3/5	6	6.3CT 6.3	6 6	LA	3 5/16 x 2 11/16	5 9/16	3 11/16	4 5/16	10
27R30		400-350-0- 70-350-400	300	5	6	6.3CT 6.3	8 4	YY	3 3/4 x 4 7/8	6 5/8	5 7/8	4 3/4	21.7
22R35		400-0-400	340	5	6	6.3CT	7	GGV	3 x 4	4 5/8	3 7/8	5 1/4	12.5
22R114	8	400-0-400	340	5	6	6.3CT	7	GGV	3 x 4	4 5/8	3 7/8	5 1/4	12.5
22R59		400-0-400	500	5	6	6.3CT 6.3	7 3	GGV	3 1/2 x 4 5/8	5 5/16	4 1/2	5 5/8	19
26R00		420-0-420 360-0-360 300-0-300	295	5 5	6 3	6.3 6.3 6.3 6.3	3 3 3 3	AGF	3 x 3 3/4	5	3 3/4	4 1/2	11
26R76		420-0-420 365-0-365 300-0-300 185-0-185	300	5 5	6 4	6.3 6.3 6.3 6.3	4 4 3 1.2	AGF	3 x 3 3/4	5 1/8	3 3/4	4 1/2	13
25R12		425-0-425	70	5	2	6.3CT	3	TAV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	4.5
25R35		425-0-425	70	5	2	6.3CT	3	TTV	2 1/4 x 3 1/2	3 7/8	3 1/4	4	4.5
27R76	1	425-0-425	70	5	2	6.3CT	3	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	4.5
27R51	1	425-0-425	70	5	2	6.3CT	3	YY	2 3/8 x 2 1/8	4.242	3.245	2.979	4.5
27R135		425-0-425	80	5	3	6.3 6.3	5 2	LB	3 5/16 x 2 11/16	4 1/2	3 11/16	4 5/16	8
25R46		435-365-0- 365-435 125-0-125	125 25	5 5	3 2	6.3CT 2.5CT	3 5	RC-150	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	6.5
24R14		435-0-435 80V. Bias Tap	250	5 6.3/5	3 3	6.3CT 2.5	3 10	GGV	3 x 3 13/16	4 5/8	3 13/16	4 7/8	11.8
24R15		438-0-438	185	5	3	6.3 6.3	4 3	GGV	3 x 3 3/8	4 5/8	3 7/8	4 1/2	9.5
25R13		440-0-440	50	5	2	6.3CT	3	TAV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6
25R36		440-0-440	50	5	2	6.3CT	3	TTV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6
22R45		440-0-440	59	6.3 6.3	.6 .3	6.3 6.3	.9 3	GGV	2 1/2 x 2 1/4	3 7/8	3 1/4	3 1/8	4.5
27R77	1	440-0-440	85	5	2	6.3CT	3	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	6
27R52	1	440-0-440	85	5	2	6.3CT	3	YY	2 5/8 x 2 3/8	4.305	3.292	3.667	6
24R75		440-0-440 1250	125 5	5 5	3 3	6.3 2.5 2.5	.6 1.75 1.75	HKF	3 7/16 x 2 3/4	3 1/4	4 3/16	3 1/2	7.5
24R25		440-0-440	130	5	3	6.3CT	3.5	GGV	2 3/4 x 2 13/16	4 1/4	3 1/2	4 1/8	7
22R49		440-360-0- 360-440	157	5	3	6.3CT 6.3 6.3	8 3 1	GGV	3 x 3 5/8	4 5/8	4	4 3/4	12
27R83		440-0-440	165	5	3	6.3 6.3 6.3 6.3	7.5 3 3 .6	MA	3 x 3 11/16	6	4	4 11/16	12
27R58		440-0-440	165	5	3	6.3 6.3 6.3 6.3	7.5 3 3 .6	YY	3 3/8 x 3	5.318	4.573	4.12	12



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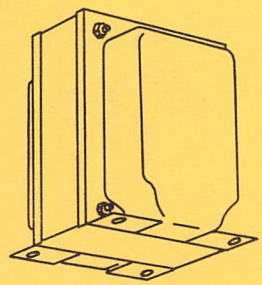

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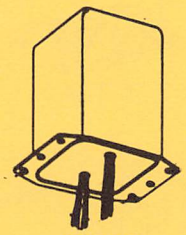

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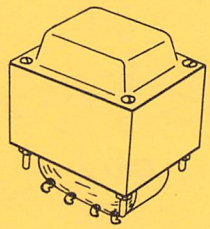

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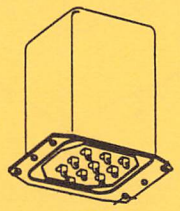

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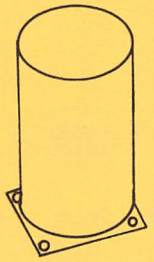

RC

1 MADC rating for choke input filter. For capacitor input filter divide MADC rating by 1.30
4 The ratings listed here are for industrial applications. For MIL-T-27A rating refer to the MIL-T-27A(green) section of this catalog.
7 Primary 115 Volts 380/1500 Cycles.
8 Primary 115/230 Volts 50/60 Cycles.

✪ 27 SERIES FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

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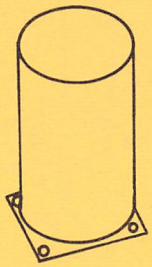

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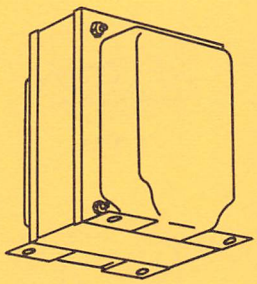

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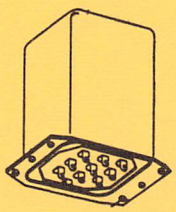

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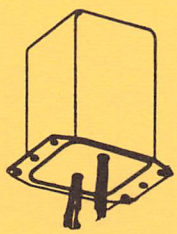

TAV

Power Transformers Continued

PRIMARY 117 VOLTS 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27R112	10	440-0-440	165	5	3	6.3 6.3 6.3 6.3	7.5 3 3 .6	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	6.5
27R97	10	440-0-440	165	5	3	6.3 6.3 6.3 6.3	7.5 3 3 .6	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	6
27R117	10	440-0-440	165	5	3	6.3 6.3 6.3 6.3	7.5 3 3 .6	YY	2 5/8 x 2 3/8	4.305	3.667	3.292	6
25R14		440-0-440	165	5	3	6.3 6.3 6.3 6.3	7.5 3 3 .6	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	12
25R16		450-0-450	60	5	2	6.3CT	3.4	TAV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6.5
25R37		450-0-450	60	5	2	6.3CT	3.4	TTV	2 3/4 x 3 7/8	4 1/4	3 5/8	4 7/16	6.5
27R131		450-0-450	100	5	3	–	–	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	4
27R78	1	450-0-450	105	5	2	6.3CT	3.5	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8	6
27R53	1	450-0-450	105	5	2	6.3CT	3.5	YY	2 5/8 x 2 3/8	4.68	3.667	3.292	6.5
27R124	10	450-350-0-350-450	120	5	3	6.3	4	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	5
27R84		450-0-450	200	5	2	6.3 6.3 6.3	4 4 .6	MA	3 x 3 11/16	6	4	4 11/16	12
27R59		450-0-450	200	5	2	6.3 6.3 6.3	4 4 .6	YY	3 3/8 x 3	5.318	4.573	4.12	12
27R98	10	450-0-450	200	5	2	6.3 6.3 6.3	4 4 .6	JA	3 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	5.7
27R113	10	450-0-450	200	5	2	6.3 6.3 6.3	4 4 .6	KB	3 x 2 7/16	4 5/16	3 15/16	3 3/8	6.2
27R118	10	450-0-450	200	5	2	6.3 6.3 6.3	4 4 .6	YY	2 5/8 x 2 3/8	4.305	3.667	3.292	5.7
25R15		450-0-450	200	5	2	6.3 6.3 6.3	4 4 .6	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	12
26R30U		450-0-450 325-0-325	240 200	5 5 5	3 3 3	6.3 6.3 6.3	6 6 2.6	GGV	3 5/8 x 3 7/8	6	4 3/4	5 7/8	16
22R60		450-0-450	250	5	4	6.3CT 6.3	2 4	GGV	3 x 3 5/8	4 5/8	4	4 3/4	12
27R90	6	450-0-450	250	5	3	6.3	8	MB	3 11/16 x 3	4 15/16	4 11/16	4	13
27R123	10	450-0-450	500	5	6	6.3	6	MB	3 11/16 x 3	4 15/16	4 11/16	4	13
27R132		500-0-500	55	5CT	3	–	–	HB	2 1964 x 1 55/64	3 3/16	2 5/8	3 1/16	3.8
25R17		500-0-500	70	5	3	6.3CT	4	TAV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	9.5
25R38		500-0-500	70	5	3	6.3CT	4	TTV	2 1/2 x 4 3/4	5 5/16	4 1/2	5 1/4	9.5
27R79	1	500-0-500	120	5	3	6.3CT	4	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8	9.5
27R54	1	500-0-500	120	5	3	6.3CT	4	YY	2 5/8 x 2 3/8	4.68	3.667	3.292	9.5
27R27		500-400-0-400-500	150	6.3/5	4	6.3CT 6.3	4 4	LA	3 5/16 x 2 11/16	5 9/16	3 11/16	4 5/16	11
27R10	1,4	500-0-500 450-0-450	195 220	5	4	6.3 6.3	6 1.5	KA	3 x 2 7/16	5 1/4	3 15/16	3 3/8	9.5
27R29		500-400-0-400-500	200	6.3/5	4	6.3CT 6.3	5 5	MA	3 11/16 x 3	6	4 11/16	4	14.5
25R47	1	500-0-500 and 80-0-80	250 100	5 5	3 2	6.3CT 6.3CT/2.5CT	4 3	RC	4 1/8 x 4 1/8	5 1/2	5 1/8	5 1/8	15
25R18		510-0-510	85	5	3	6.3CT 6.3CT	4 1	TAV	2 1/2 x 4 3/8	5 5/16	4 1/2	5 1/4	11.5
25R39		510-0-510	85	5	3	6.3CT 6.3CT	4 1	TTV	2 1/2 x 4 3/8	5 5/16	4 1/2	5 1/4	11.5

CONTINUED NEXT PAGE

1 MADC rating for choke input filter. For capacitor input filter divide MADC rating by 1.30

4 The ratings listed here are for industrial applications. For MIL-T-27A rating refer to the MIL-T-27A (green) section of this catalog.

6 Primary 105/115/125 54/64 Cycles.

10 Primary 105/115/125 Volts 380/1000 Cycles.

27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Power

Power Transformers Continued

PRIMARY 117 VOLTS 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Rectifier Fil. Volts	Rectifier Fil. Amps	Other Fil. Volts	Other Fil. Amps	✪ Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27R80	1	510-0-510	150	5	3	6.3CT 6.3CT	4 1	MA	3 11/16 x 3	6	4 11/16	4	11.5
27R55	1	510-0-510	150	5	3	6.3CT 6.3CT	4 1	YY	3 3/8 x 3	5.318	4.573	4.12	11.5
25R19₀		520-0-520	115	5	3	6.3CT 6.3CT	4.5 1	TAV	2 1/2 x 4 3/8	5 5/16	4 1/2	5 1/4	11.5
25R40		520-0-520	115	5	3	6.3CT 6.3CT	4.5 1	TTV	2 1/2 x 4 3/8	5 5/16	4 1/2	5 1/4	11.5
27R81	1	520-0-520	200	5	3	6.3CT 6.3CT	4.5 1	MA	3 11/16 x 3	6	4 11/16	4	12.5
27R56	1	520-0-520	200	5	3	6.3CT 6.3CT	4.5 1	YY	3 3/8 x 3	5.318	4.573	4.12	12.2
27R11	1,4	525-0-525 450-0-450	290 310	5	4	6.3 6.3	8 2	MB	3 11/16 x 3	4 15/16	4 11/16	4	13
27R09₀	4	525-0-525 425-0-425	320 340	5	6	6.3 6.3	10 5	OA	3 3/4 x 3	6 3/4	4 1/2	5 1/2	13
25R20		550-370-75- 0-75-370-550	175	5	6	6.3CT 6.3CT	5 1	TAV	3 1/2 x 5 3/8	6 1/16	5 1/16	5 7/8	17.5
25R41		550-370-75- 0-75-370-550	175	5	6	6.3CT 6.3CT	5 1	TTV	3 1/2 x 5 3/8	6 1/16	5 1/16	5 7/8	17.5
24R84		550-0-550	250	5	4	–	–	GGV	3 x 2 7/8	4 5/8	3 15/16	4	8
27R92	6	550-0-550	250	–	–	–	–	LB	3 5/16 x 2 11/16	4 1/2	3 11/16	4 5/16	11
27R82	1	550-370-75- 0-75-370-550	300	5	6	6.3CT 6.3CT	5 1	NA	4 1/16 x 3 5/16	6 13/16	4 5/16	5 1/16	17.5
27R57	1	550-370-75- 0-75-370-550	300	5	6	6.3CT 6.3CT	5 1	YY	3 3/8 x 3	6.068	5.323	4.792	17.5
27R99	1,10	550-370-75- 0-75-370-550	300	5	6	6.3CT 6.3CT	5 1	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	6.5
27R119	1,10	550-370-75- 0-75-370-550	300	5	6	6.3CT 6.3CT	5 1	YY	2 5/8 x 2 3/8	4.68	3.667	3.292	6.5
27R133		600-0-600	15	5CT	3	–	–	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	2.2
22R36		600-0-600	200	5	3	6.3	5	GGV	3 x 3 3/8	4 5/8	3 7/8	4 1/2	9.5
24R27		600-0-600	200	5	3	6.3 6.3	3 3	GGV	3 x 3 1/16	4 5/8	3 7/8	4 1/4	8.5
25R48		600-525-0- 525-600	250	5	3	6.3CT 7.5CT 6.3CT	3 3 4	RC	4 1/8 x 4 1/8	5 1/2	5 1/8	5 1/8	15.5
27R12	1,4	600-0-600 500-0-500	350 390	5	6	6.3 6.3	10 5	OA	3 3/4 x 3	6 3/4	4 1/2	5 1/2	13
24R85₀		617-0-617	250	5	4	–	–	GGV	3 x 3 1/8	4 5/8	4	4 1/4	9
24R86		617-0-617	500	5	6	–	–	GGV	3 1/2 x 4 5/8	5 5/16	4 1/2	5 5/8	20
22R51		625-0-625	236	5	6	6.3CT 6.3 6.3	8 3 3	GGV	3 1/2 x 4 5/8	5 5/16	4 1/2	5 5/8	20
22R56		625-0-625 and 130	278 50	5	4	6.3 6.3 6.3	4 1 1	GGV	3 1/2 x 4 5/8	5 5/16	4 1/2	5 5/8	20
22R58		750-0-750	315	5	6	6.3 6.3	8 3	GGV	3 1/2 x 6 1/8	4 1/2	5 5/16	7 1/8	30
27R93	6	800-0-800	250	–	–	–	–	NB	4 1/16 x 3 5/16	5 1/2	4 5/16	5 1/16	16.5

1 MADC rating for choke input filter. For capacitor input filter divide MADC rating by 1.30

4 The ratings listed here are for industrial applications. For MIL-T-27A rating refer to the MIL-T-27A (green) section of this catalog.

6 Primary 105/115/125 54/64 Cycles.

10 Primary 105/115/125 Volts 380/1000 Cycles.

Half-Wave–Power Transformers

PRIMARY 117 VOLTS 50/60 CYCLES

Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Filament Supply Volts	Filament Supply Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26R55		96	145	6.3	6.45	AGF	2 3/16	3 1/8	2 1/2	3	2.6
24R72		117	15	6.3	.6	BAH	2 3/8	1 5/8	2 13/16	1 5/8	1
26R32		117	20	6.3CT	.7	BGV	2	2	1 5/8	2 1/2	1
26R14		117	200	6.3 6.3 6.3	4.5 4 2	AGF	2 3/4 x 2 1/2	3 1/2	3 1/2	4 1/8	5.2
26R106	9	117/110	900	6.3	10	AGF	2 13/16 x 2 1/4	2 5/8	3 3/8	2 13/16	4
26R105	9	117/110	900	6.3	10	GGH	3 5/16 x 3 3/16 or 2 1/2 x 3 3/16	3 1/8	3 3/4	3 3/4	4
27R18		120	100	6.3CT	1.6	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	2
26R37		125	15	6.3	.6	BAV	2	2	2 3/8	1 3/8	.7
26R38		125	50	6.3	2	BAH	3 1/8	2 1/4	3 1/4	2 1/8	1.5

9 Triple X grain oriented lamination – see the complete line of Triple X units on page 165

✪ 27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

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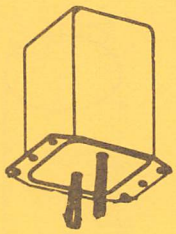

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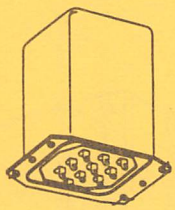

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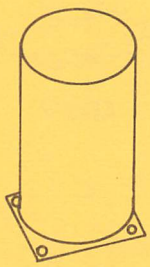

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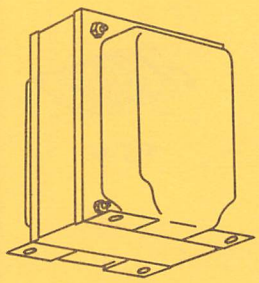

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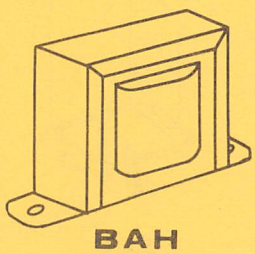
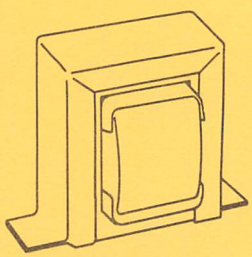
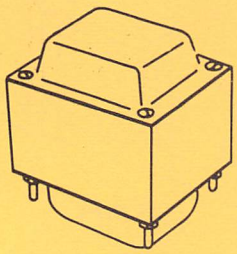


BAH



BAV leads
BHV lugs



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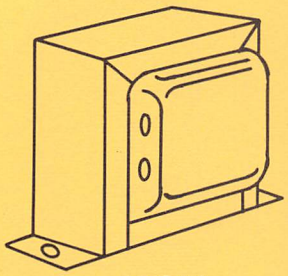

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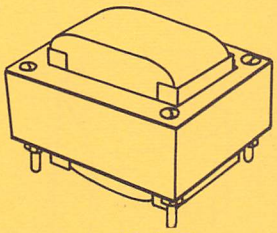

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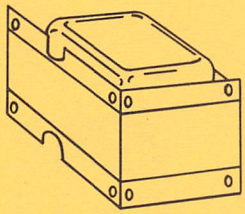

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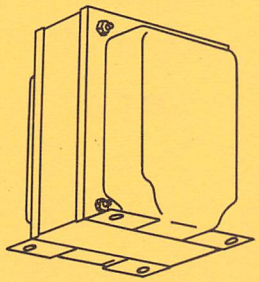

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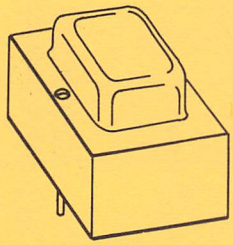

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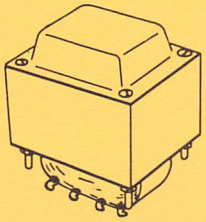


HKF

Half-Wave Power Transformers

continued
PRIMARY 117 VOLT 50/60 CYCLES

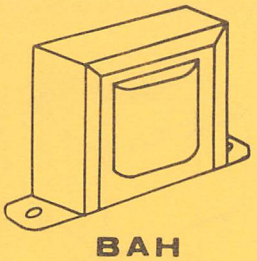
Part No.	Notes	Plate Supply Volts	Plate Supply MADC	Filament Supply Volts	Filament Supply Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
26R107	9	127/115	1,000	12.6CT 12.6CT 6.3 6.3	5 2 10 2	AGF GGV GGH	3 1/8 x 2 1/2 2 1/2 x 2 1/8 2 1/2 x 2 1/8	3 1/2 3 3/4 3 1/8	3 3/4 3 1/8 3 3/4	3 1/8 3 1/2 3 1/2	6
24R111		128	300	6.3	2.5	GGV	2 x 1 13/16	3 1/8	2 1/2	2 7/8	2.2
24R73		130	20	0-15-22.5-30	.6	GGV	1 3/4 x 2	2 3/4	2 3/8	2 3/4	2
24R67		135	15	6.3	.9	HFF	1 1/4	1 3/4	1 7/8	1 9/16	1
24R71		135	50	6.3	1.5	BAH	3 1/8	2 1/4	3 3/4	2 1/8	1.5
24R74		135	200	6.3CT	5.5	AGF	2 13/16 x 2 1/4	1 7/8	3 3/4	2 13/16	2.5
26R13		140/117	300	6.3 6.3 6.3	9 2 1	AGF	3 x 3 3/4	3 7/8	3 3/4	4 1/2	7.5
26R108	9	140/127/115	1,000	6.3 6.3 12.6CT	6 6 2	AGF GGV GGH	2 1/4 x 2 13/16 2 1/4 x 2 1/8 2 1/8 x 2 13/16	3 1/8 3 1/2 3	3 3/8 2 13/16 3 3/8	2 13/16 3 1/8 3 1/8	6
26R60		150	25	6.3	.5	BGV	2	2	1 3/4	2 1/2	.7
22R12		150	50	6.3	1.5	BAH	3 1/8	2 1/4	2	3 3/4	1.5
22R21	11	170/160/150 250 MA In Doubler Ckt.	500	6.3CT	6	GGV	2 3/4 x 3 3/4	4 1/4	3 5/8	4 7/8	9
26R39		184 Tap 92	260 .6	–	–	AGF	1 3/4 x 2 3/16	2 3/4	2 3/16	2 5/8	2
22R03	14	180 177	500 5 (Bias)	6.3 6.3	5.5 5.5	GGH	3 3/4 x 4 3/8	3 15/16	4 5/8	5 1/2	17
24R112		320	13 Plus 50 MA (RMS)	6.3	.6	BHV	2 3/8	2 3/8	2 7/8	1 3/4	1
24R113	8	550	25	6.3 6.3	1.5 1.5	AGF	2 x 2 1/2	2 3/4	3	21/2	2
24R109	15	550 55	30 60	6.3 6.3	.9 .6	DAF	–	2 1/4	2 5/8	2 3/16	1.4
24R31		1,500	10	2.5 2.5	1.75 2.1	GGV	2 1/2 x 2 1/16	3 7/16	3 1/4	3 1/4	4
24R28		1,600	2	2/1.25 6.3 6.3	1.75 .3 .3	GGV	2 1/2 x 2 1/16	3 7/8	3 1/4	3 1/4	4
24R77		1,600	3	2.5-5-6.3 2.5-5-6.3	1 3	HKF	2 1/2 x 2	2 3/8	3 1/16	2 9/16	3.5
26R28U		1,750	2	2.5 6.3/2.5	2 2	GGV	2 x 2	3 1/8	2 5/8	2 7/8	2.6
22R40		1,800	2	2.5 2.5 or 6.3	1.8 2.2 .6	GGV	2 1/2 x 1/2	3 7/8	3 1/4	3 3/4	5
24R91		1,800	4	2.5	1.75	GGV	2 x 2	3 1/8	2 5/8	2 7/8	2.7
24R79	16	1,825 180 117	3 475 (RMS) 200 (RMS)	6.3CT 1.25	5.65 .2	GGV	2 1/2 x 3 3/4	3 7/8	3 1/4	4 5/8	7.5
22R42		1,880	1.5	2.5	1.75	BAH	3 5/8	2 1/2	2 5/8	4	2
24R92		2,400	5	2.5	1.75	GGV	2 3/4 x 2 3/4	4 1/4	3 1/2	3 7/8	5.6
24R30		2,400	5	2.5 2.5	2 2	GGV	2 3/4 x 2 11/16	4 1/4	3 1/4	3 3/4	5.5
27R17	17	2,400 1,600 800 1.25	5 5 5 .2	6.3 5.2 KV Test	.6	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	4
26R29U		2,500	5	2.5 6.3/2.5	2 3	GGV	2 1/4 x 2 1/2	3 7/8	3 1/4	3 1/2	4.6
24R29		2,700	2	2/1.75 6.3 6.3	1.75 .3 .3	GGV	2 1/2 x 2 1/4	3 7/8	3 1/4	3 1/2	4.6
27R127		3,200	3	1.25	.2	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	6.5

8 Primary 115/230 Volts 50/60 Cycles.
9 Triple X grain oriented lamination – see the complete line of Triple X units on page 165.
11 Primary 107/117 Volts 50/60 Cycles.
14 500 MA rating is for use in doubler circuit.
15 Exact replacement for Solar Model CF-160 Condenser Tester. Use original mounting brackets.
16 Exact replacement for Heathkit Model OP-1 Scope. To replace complete power transformer use 21F68 and 24R79.
17 Highly shielded scope transformer.

Power

Photo Flash Transformers

Part No.	Primary Volts	Secondary Voltage	Secondary MADC	Filament Volts	Filament Amps	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
22R41 °	4 V DC Vibrator	450 V DC or 900 V DC in Doubler Ckt.	16 8	–	–	BAV	2 3/8	2 3/8	2 1/8	2 7/8	1
22R42	117 @ 60 CPS	1,880	1.5	2.5	1.75	BAH	3 5/8	2 1/2	2 5/8	4	2
22R43	117 @ 60 CPS or 4 V DC Vibrator	1,100 or 2,200 V in Doubler Ckt.	4	–	–	BAV	2 13/16	2 3/4	2 1/8	3 3/8	2
22R24	117 @ 60 CPS or 6 V DC Vibrator	350-0-350	135	6.3 With 117 V. Only	4.7	GGV	3 x 3 1/8	4 5/8	3 7/8	4 1/4	8.75
22R46	117 @ 60 CPS or 6 or 12 V DC Vibrator	350-0-350	135	6.3 6.3	3 3	GGV	3 x 3	4 5/8	3 7/8	4	8.7
24R107	105/115/125 60 CPS	Charges up to 1,050 MFD to 450 Volts DC		–	–	BAV	2 3/8	2 5/16	2 15/16	2	1.4
22R47	115 60 CPS	Charges up to 100 MFD to 2,200 Volts DC		–	–	G	3 1/4	2 1/2	3 3/4	2 5/32	2
22R44	Discharge From 200 Volt Condenser	15 KV Peak		–	–	Single Hole Mounting		1 1/2	1 1/8	2 1/4	.2
22R48	Discharge From 200 Volt Condenser	15 KV Peak		–	–	Phenolic Tube		3 long	7/8 Dia.		.2



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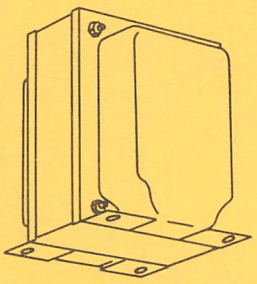

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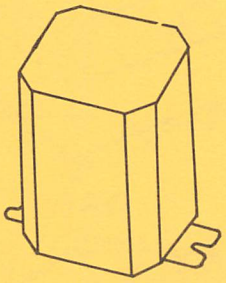


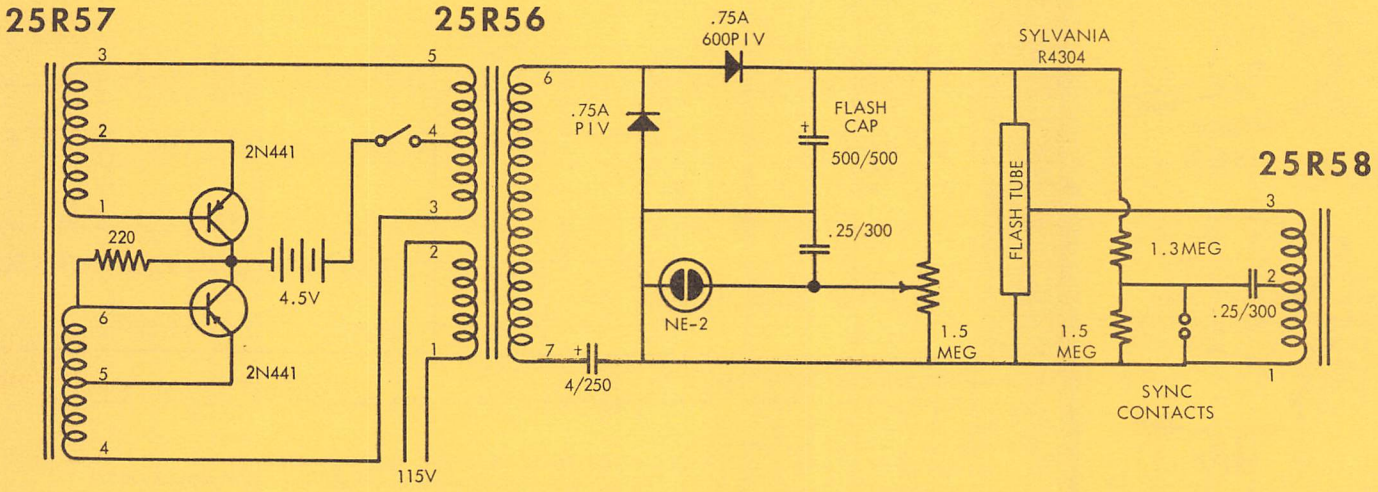
G

RTV

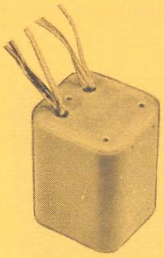
Converter-Photoflash Transformers ✪

Part No.	Primary	Secondary	Mtg Type	Mtg Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
25R56	115 V. @ 50/60 CPS or 4.5 Volts. Battery switched with 25R57 inverter	400 Volts DC in Doubler Ckt. Capacity 40 Watt-Sec.	G	2 3/8	1 7/8	2 13/16	1 3/4	1
25R57	4.5 Volt DC Inverter (See Circuit)	Output to Feed 25R56 Stepup Transformer	RTV	11/16	1 3/16	7/8 Dia.		1 oz.
25R58	Trigger Transformer Discharge from .25 MFD @ 225 Volt DC	Ouput 6 KV Pulse	RTV	–	15/16	7/8 Dia.		.5oz.

✪ SEE PAGE 13 FOR THE COMPLETE LINE OF INVERTERS AND CONVERTER TRANSFORMERS.



Vibrator



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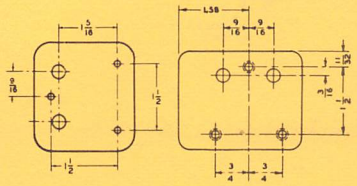
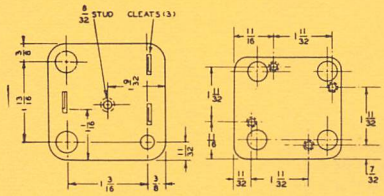
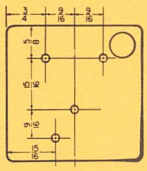


VIB-1 VIB-2



VIB-3 VIB-4



VIB-5

Auto Radio Vibrator Transformers

EXACT REPLACEMENT FOR 6 VOLT BATTERY AND VIBRATOR

Part No.	Original Part No.	Trade Name	DC Volts To Filter	MADC	Mtg. Type	Mtg. Centers	Dimensions H.	Dimensions W. x D.	Wt. Lbs.
22R55	65-0404	Philco	150	40	BAV	2 3/8	2 1/4	1 3/4 x 2 7/8	1
22R57	25B591533 25C500189	Motorola Motorola	150	50	HFF	1 3/4	2	1 7/8 x 2 1/4	1
22R61	TV-100, A.C. D 318V-2	Aircastle, Airline, Firestone, etc.	225	50	BAV	2 13/16	2 5/8	2 x 3 1/8	1.5
22R63	25K512083	Motorola	225	50	HFF	1 3/4	2 1/4	1 7/8 x 2 1/4	1.5
22R67	25B472533 141-0010	Motorola Sylvania (Ford)	250	60	VIB-1	Exact	3 1/16	2 3/16 x 2 3/8	2.5
22R69	32-8313-1	Philco (Ford)	260	60	DAF	1 3/4 x 2 3/16	2 1/4	2 3/16 x 2 5/8	1.5
22R71#	7255881	United Motors (Delco)	265	55	VIB-3	Exact	3 1/4	2 5/8 x 2 5/8	2.5
22R73	C-217020	Bendix	270	60	VIB-2	Exact	2 5/8	2 3/16 x 2 11/16	2.5
22R75	6060	United Motors (Delco)	270	75	VIB-1	Exact	3 1/16	2 3/8 x 2 1/2	2.5
22R77#	7240519	United Motors (Delco)	280	65	VIB-4	Exact	3 7/8	2 1/4 x 2 3/8	2.5

For 12 Volt Battery and Vibrator

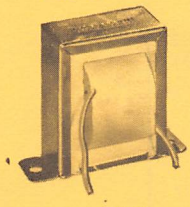
EXACT REPLACEMENT FOR 12 VOLT BATTERY AND VIBRATOR

Part No.	Original Part No.	Trade Name	DC Volts To Filter	MADC	Mtg. Type	Mtg. Centers	Dimensions H.	Dimensions W. x D.	Wt. Lbs.
22R89#	6064, 6066	United Motors (Delco)	240	60	VIB-5	Exact	3 1/8	2 5/8 x 2 5/8	2.5
22R52	6065, 6067	United Motors (Delco)	280	78	DAF	1 3/4 x 2 3/16	2 1/4	2 3/1 x 2 5/8	1

Auto Radio Vibrator Transformers

6 VOLT BATTERY AND VIBRATOR

Part No.	Secondary A.C. Volts	D.C. Volts To Filter	MADC	Mtg. Type	Mtg. Centers	Dimensions H.	Dimensions W. x D.	Wt. Lbs.
22R25	150-0-150	150	40	VIB-2	1 1/2 x 1 1/2	2 5/8	2 3/16 x 2 11/16	2.0
22R23	160-0-160	160	80	VAV	1 11/16 x 1 5/8	2 9/16	2 1/4 x 2 1/8	1.75
22R70	165-0-165	165	40	BAV	2 13/16	2 3/4	3 1/4 x 2 1/8	1.7
22R29	210-0-210	210	60	VIB-2	1 1/2 x 1 1/2	2 5/8	2 3/16 x 2 11/16	2.5
22R81	237-0-237	225	75	CAV	1 19/32 x 2 1/16	3 1/16	2 1/2 x 2 1/2	2.5
22R86	240-0-240	240	60	VIB-2	1 1/2 x 1 1/2	2 5/8	2 3/16 x 2 11/16	2.1
22R28	240-0-240	240	80	VIB-2	1 1/2 x 1 1/2	2 5/8	2 3/16 x 2 11/16	3.5
22R27	250-0-250	250	50	VIB-2	1 1/2 x 1 1/2	2 5/8	2 3/16 x 2 11/16	3.5
22R20	250-0-250	250	50	CAV	1 1/2 x 1 3/4	2 5/8	2 3/16 x 2 1/2	2.5
22R80	250-0-250	250	60	CAV	1 19/32 x 2 1/16	3 1/16	2 1/2 x 2 1/2	2.5
22R26	250-0-250	250	80	VIB-2	1 1/2 x 1 1/2	2 5/8	2 3/16 x 2 11/16	2.5
22R72	255-0-255	250	40	BAV	2 13/16	2 3/4	3 1/4 x 2 1/8	1.7
22R76	255-0-255	250	50	VIB-1	1 1/2 x 1 1/2	3 1/32	2 1/2 x 2 3/8	2.5
22R74	260-0-260	265	50	CAV	1 19/32 x 2 1/16	3 1/16	2 1/2 x 2 9/16	2.5
22R78#	280-0-280	280	55	VIB-3	1 Stud Screw	3 1/4	2 5/8 x 2 5/8	2.5
22R18	285-0-285	285	75	CAV	1 3/4 x 1 3/4	2 5/8	2 3/16 x 2 5/8	2.8
22R22	325-0-325	325	75	CAV	2 x 2 1/2	3 1/8	2 1/2 x 3	3.5
22R19	330-0-330	330	100	CAV	2 1/4 x 2 1/4	3 1/2	2 7/8 x 2 7/8	3.5



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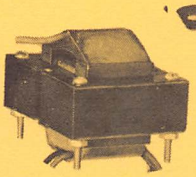

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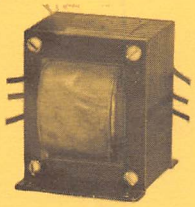

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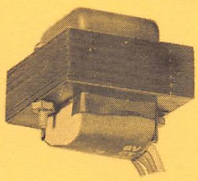

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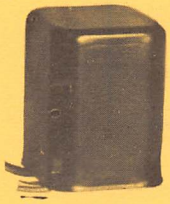


VAV

For 12 Volt Battery and Vibrator

Part No.	Secondary A.C. Volts	D.C. Volts To Filter	MADC	Mtg. Type	Mtg. Centers	Dimensions H.	Dimensions W. x D.	Wt. Lbs.
22R82	170-0-170	150	40	BAV	2 3/8	2 3/8	2 7/8 x 2 3/8	1.5
22R54#	200-0-200	200	60	VIB-2	1 1/2 x 1 1/2	2 5/8	2 3/16 x 2 11/16	2.5
22R79	225-0-225	225	50	BAV	2 13/16	2 5/8	2 x 3 1/8	1.5
22R53#	240-0-240	240	60	VIB-2	1 1/2 x 1 1/2	2 5/8	2 3/16 x 2 11/16	2.5
22R84	245-0-245	245	60	GGV	1 3/4 x 2 3/16	2 1/4	2 3/16 x 2 5/8	2
22R83#	260-0-260	260	55	VIB-3	1 Stud Screw	3 1/4	2 5/8 x 2 5/8	2.75
22R85	285-0-285	285	70	VIB-1	2 1/4 x 2 3/8	3 1/4	2 1/4 x 2 3/8	2.5

Built-in Hash Filter

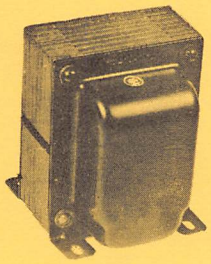
Vibrator

Vibrator Transformer

With 6 Volt D.C. And 117 Volt A.C. Primaries.

Part No.	Secondary Volts	Secondary MADC	Filament Volts	Filament Amps	Mtg. Type	Mtg. Centers	Dimensions H.	Dimensions W. x D.	Wt. Lbs.
22R24	350-0-350	135	6.3*	4.7	GGV	3 x 3 1/8	4 5/8	3 7/8 x 4 1/4	8.75
With 6, 12 Volt D.C. And 117 Volt A.C. Primaries									
22R46	350-0-350	135	6.3 6.3	3 3	GGV	3 x 3	4 5/8	3 7/8 x 4 1/8	8.6

* With 117 Volt Primary Only.



GGV

Vibrator Transformer Replacement Chart

This chart has been prepared for your convenience to show some popular uses for part of our Vibrator Transformer line. For complete information on our entire line of auto-radio component replacements, consult our latest AUTOMOBILE RADIO REPLACEMENT GUIDE available from your parts distributor.

MFR'S. NO.	REPLACE WITH
AIRCASTLE	
TV-86A	22R27
TV-100/A	22R61
TV-W100	22R57
TV-200	22R27
318V-2	22R61
B80-243/E	22R61
AIRLINE	
TV-86/A	22R27
TV-100A/C	22R61
TV-555-D	22R79
TV-600-6	22R63
318V-2	22R61
ALLSTATE	
76-555	22R79
C80-296	22R79
T80-21-0	22R55
T80-22-0	22R82
AUTOMATIC	
TV-86/A	22R27
TV-100/D	22R61
TV-600-6	22R63
318V-2	22R61
BUICK	
6060	22R75
6064	22R89
6066	22R89
7240519	22R77
7256939	22R77
7261410	22R75
7263118	22R89
7264252	22R89

MFR'S. NO.	REPLACE WITH
CADILLAC	
6066	22R89
6067	22R52
CHEVROLET	
6067	22R52
1220867	22R83
1228663	22R69
7255881	22R71
7258747	22R69
CONTINENTAL	
C282975-2	22R52
CORONADO	
B80-243	22R61
FIRESTONE	
TV-100/C	22R61
318V-2	22R61
FORD	
95-1071	22R75
95-1073	22R67
95-1143	22R67
141-0004	22R73
141-0010	22R67
141-0025	22R63
C217020	22R73
C217453-1	22R27
25C532402/A	22R69
25C534414	22R52
25C535035/B	22R52
L-291818-1	22R52

MFR'S. NO.	REPLACE WITH
G M C	
7255881	22R71
HUDSON	
95-1066	22R76
141-0025	22R63
INTERNATIONAL	
25B472533-J	22R67
25C472533	22R67
25C501303	22R63
25C521841	22R52
LINCOLN	
95-1071	22R75
95-1073	22R67
95-1143	22R67
141-0010	22R67
141-0025	22R63
C282975-1	22R69
C282975-2/-3	22R52
MERCURY	
28-2975-3	22R52
55-75782-2	22R67
95-1023	22R29
95-1024	22R29
95-1071	22R75
95-1073	22R67
95-1143	22R67
141-0010	22R67
141-0025	22R63
C282975-1	22R69
C282975-2	22R52

MFR'S. NO.	REPLACE WITH
MOPAR	
32-8313-1/-2	22R69
32-8592/-1	22R52
65-0347	22R29
25B472533	22R67
25B372533	22R67
25C501644/-J	22R69
25C580066	22R73
25K512083	22R69
MOTOROLA	
25B472214	22R67
25B472533/-J	22R67
25B591533	22R57
25B70950/B/D/E	22R67
25C 72533/-J	22R67
25C472586	22R28
25C500189	22R57
25C501303/D/G	22R63
25C501644/-J	22R69
25C21841	22R52
25C534978	22R63
25C580066	22R73
25K512083	22R69
25K580539	22R67
25C591533	22R57
25K590650	22R69
NASH	
25B472533	22R67
25C472533	22R67
25C591533	22R57
OLDSMOBILE	
6064	22R89
6065	22R52
6067	22R52
7255881	22R52

MFR'S. NO.	REPLACE WITH
7263094	22R52
7264884	22R52
PHILCO	
32-8313	22R69
65-0404	22R55
PONTIAC	
6067	22R52
7255881	22R71
7259375	22R71
STUDEBAKER	
6065	22R52
32-8313-1/-3	22R69
32-8314-3	22R86
65-0404	22R55
TRUETONE	
104295	22R61
B-80-243	22R61
12A23524	22R70
WILLYS	
25B472533	22R67

NOTES

RCA 971352-1-4 (412208)

THORDARSON 26R57 (P 106 & 172)

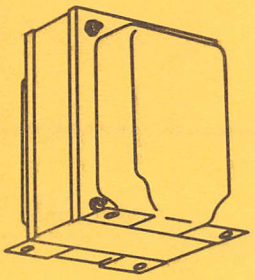
Rectifier

Silicon Rectifier Power Transformers

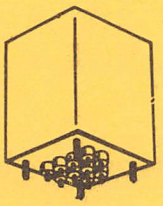
These transformers have been designed to fill the gap between the electronic tube – high voltage, low current — type of transformer and the transistor — low voltage, high current — type unit. Refer to the chart below for circuit, voltage and rectifier details. The two 6.3 volt windings may be connected in series or in parallel to provide either 6.3 volts or 12.6 volts CT. They may also be used with suitable rectifiers to supply a low voltage DC source.

The 27R series shown on this page have been designed and manufactured to meet MIL-T-27A Specifications.

Part No.	Secondary Volts	Secondary MADC	Secondaries 6.3 Volts @	Secondaries 6.3 Volts @	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
24R105	30-0-30	2,500	1.5A	1.5A	GGV	2 3/4 x 2 11/16	4 5/16	3 5/8	3 15/16	6
27R105	30-0-30	2,500	1.5A	1.5A	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
24R104	40-0-40	2,000	1.5A	1.5A	GGV	2 3/4 x 2 13/16	4 5/16	3 5/8	4 1/16	6.5
27R104	40-0-40	2,000	1.5A	1.5A	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
24R103	50-0-50	1,600	1.5A	1.5A	GGV	2 3/4 x 2 11/16	4 5/16	3 5/8	3 15/16	6
27R103	50-0-50	1,600	1.5A	1.5A	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
24R102	100-0-100	800	2 A	2 A	GGV	2 3/4 x 2 15/16	4 5/16	3 5/8	4 3/16	6.9
27R102	100-0-100	800	2 A	2 A	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
24R101	150-0-150	600	2.5A	2.5A	GGV	2 3/4 x 3 1/16	4 5/16	3 5/8	4 5/16	7.1
27R101	150-0-150	600	2.5A	2.5A	LA	3 5/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10
24R100	200-0-200	400	3A	3A	GGV	2 3/4 x 3 1/16	4 5/16	3 5/8	4 5/16	7.1
27R100	200-0-200	400	3A	3A	LA	3 7/16 x 2 11/16	5 9/16	4 5/16	3 11/16	10



GGV



LA

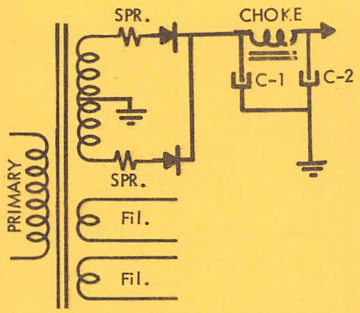
SEE PAGE 27

Typical Operation Chart

The following chart has been prepared to simplify the designing of complete low voltage power supplies for the silicon rectifier power transformer shown above.

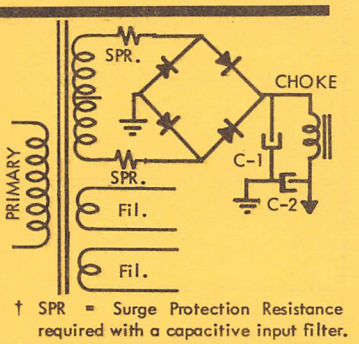
The DC Voltages are average and may vary slightly in individual units, due to variations in component values. Selection of the silicon rectifiers recommended in this chart was based on a 50°C maximum rectifier temperature, for higher temperature operation refer to manufacturer's specifications.

Part No.	DC Output Volts	DC Output MADC	Filter † Input	Choke Part No.	C-1 In MFD	C-2 In MFD	Typical Silicon Rectifiers
24R105	31	2,500	Capacitive	20C26	500	500	1N1124/R,1N1621,1N1342/A
24R105	23	4,000	Inductive	20C01	-	1,000	1N1342/A,1N1621,10J2(I.R.)
24R104	47	2,000	Capacitive	20C25	500	500	1N1086/20LA,1N1124/R,1N1343/A,1N1621
24R104	33	3,000	Inductive	20C01	-	1,000	1N1124R,1N1342/A,1N1621,10J2(I.R.)
24R103	53	1,600	Capacitive	20C25	200	200	1N1086/20LA,1N1124/R,1N1344/A
24R103	41	2,600	Inductive	20C26	-	300	1N1124/R,1N1344/A
24R102	105	800	Capacitive	20C25	40	150	1N611/A,1N1087/30LA,1N1117,1N1565
24R102	86	1,400	Inductive	20C25	-	350	1N1117,1N1087/30LA
24R101	148	600	Capacitive	26C81	8	20	1N1095,1N1491,1N1104,1N2614,1N4433
24R101	130	1,000	Inductive	20C25	-	125	*1N611/A,1N1541,1N1565A
24R100	192	400	Capacitive	20C136	10	10	*1N604,1N1084,1N540,1N2483,1N1103
24R100	173	570	Inductive	20C25	-	200	*1N256,1N1696,1N605/A,1N540,1N2483



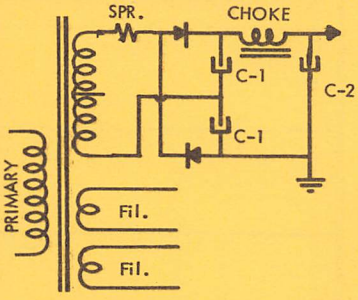
† SPR = Surge Protection Resistance required with a capacitive input filter.

Part No.	DC Output Volts	DC Output MADC	Filter † Input	Choke Part No.	C-1 In MFD	C-2 In MFD	Typical Silicon Rectifiers
24R105	70	1,060	Capacitive	20C25	200	200	1N610,1N3189,1N1540,1N1564A
24R105	50	2,000	Inductive	20C25	-	500	1N1087,1N1086,1N1124/R
24R104	93	810	Capacitive	20C25	100	100	1N610,1N3189,1N1540,1N1564A
24R104	71	1,500	Inductive	20C25	-	250	1N1087,1N1086,1N1124/R
24R103	100	880	Capacitive	20C25	40	80	1N610,1N3189,1N1540,1N1564A
24R103	88	1,160	Inductive	20C25	-	300	1N1087,1N1086,1N1124/R
24R102	247	377	Capacitive	26C92	30	40	1N604,1N1084,1N256,1N1696
24R102	172	625	Inductive	26C81	-	250	1N540,1N1103,1N1169,1N2483,1N2613
24R101	322	305	Capacitive	26C91	8	20	1N256,1N1696,1N605/A
24R101	285	425	Inductive	20C25	-	125	1N256,1N1696,1N605/A
24R100	502	150	Capacitive	20C68	8	10	*1N604,1N1084,1N256,1N1696
24R100	330	302	Inductive	20C70	-	20	*1N604,1N1084,1N256,1N1696



† SPR = Surge Protection Resistance required with a capacitive input filter.

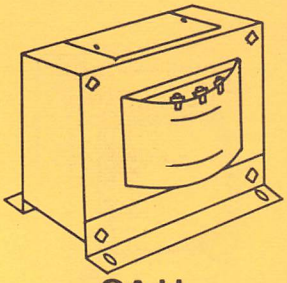
Part No.	DC Output Volts	DC Output MADC	Filter † Input	Choke Part No.	C-1 In MFD	C-2 In MFD	Typical Silicon Rectifiers
24R105	150	553	Capacitive	20C137	500	200	1N540,1N1103,1N1169,1N2483,1N2613
24R104	212	390	Capacitive	26C95	150	80	1N540,1N1103,1N1169,1N2483,1N2613
24R103	240	325	Capacitive	26C93	80	16	1N540,1N1103,1N1169,1N2483,1N2613
24R102	536	188	Capacitive	20C49	80	30	1N547,1N1096,1N2071,1N2484
24R101	802	142	Capacitive	26C89	60	20	*1N547,1N1096,1N2071,1N2484
24R100	1,040	75	Capacitive	20C71	8	2	*1N547,1N1096,1N2071,1N2484



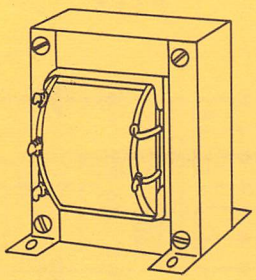
† SPR = Surge Protection Resistance required with a capacitive input filter.

† SPR — SURGE PROTECTION RESISTORS are required with capacitive input filters. Allow 3.5 ohms per 70 volts RMS applied voltage, then subtract the secondary winding DC resistance from this value. The remainder will be the total resistance required for the SPR Resistance.

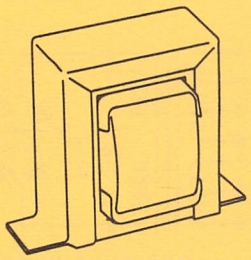
* To meet the higher peak inverse voltage required connect 2 rectifiers in series in each leg of the circuit.



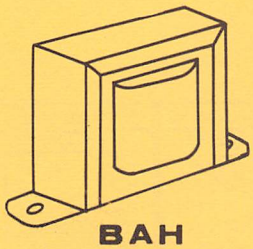
CA H



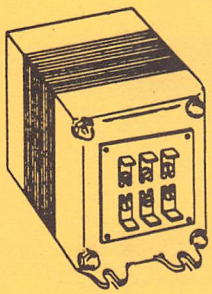
CAV LAV LHV



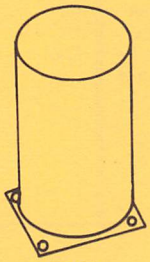
BAV



BAH



PUV



RC

Low Voltage Rectifier

50/60 CYCLES

IDEALLY SUITED FOR SELENIUM OR SILICON RECTIFIER POWER SUPPLIES USED FOR TRANSISTOR CIRCUITS

Part No.	Primary Voltage	Secondary AC Voltage	Secondary AC Amps	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
23V103	115	6.3/13/19.5/26	3	LAV	2 1/4 x 2 3/16	3 1/2	2 7/8	2 11/16	3.5
23V106	115	8/9‡ 8/9‡	2 2	LAV	2 x 2 1/16	3 1/8	2 9/16	2 9/16	2.3
23V107	115	7/8/9	7	LAV	2 1/4 x 2 3/16	3 1/8	2 7/8	2 11/16	3.5
23V109	115	9CT ‡ 9‡ 9‡ 9‡	3.5 3.5 3.5 3.5	LAV	2 1/2 x 2 7/16	3 13/16	3 3/16	2 15/16	5
23V108	105/115/125	9‡ 9‡ 9‡ 9‡	10 10 10 10	LAV	3 x 4 9/16	4 5/8	3 13/16	5 1/16	16
23V208	115	9.5	13.8	CAV	2 1/2 x 2 1/8	3 13/16	3 1/8	2 5/8	4
23V115	115 ★	10/20CT/40CT	.035	BAH	2	1 3/8	2 3/8	1 3/8	.5
23V116	115 ★	10/20CT/40CT	.1	BAH	2 3/8	1 5/8	2 13/16	1 5/8	.7
23V117	115 ★	10/20CT/40CT	.3	BAH	3 1/8	2 9/32	3 11/16	2	1.5
23V118	115 ★	10/20CT/40CT	.75	BAH	3 9/16	2 5/8	4	2 1/4	2.4
23V119	115 ★	10/20CT/40CT	1	GGV	2 x 2 1/4	3 1/4	2 11/16	3	3.25
27V73	115	10	20	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	8.5
23V114	115/230	12CT 12CT	10	GGV△	3 x 3 5/8	4 5/8	3 15/16	4 3/4	12.7
23V113	115	12/13.5/15/16.5/18 12/13.5/15/16.5/18	20 20	LAV	2 3/4 x 4 1/2	5 3/8	4 7/16	4 3/4	25
23V121	115	13/18‡ 13/18‡	.900 .900	GGV	1 15/16 x 2	3 1/8	3	2 1/2	2.75
23V47	115	13‡ 13‡	3 3	LAH	2 13/16 x 2 1/8	2 13/16	3 3/8	2 3/4	3.2
23V207	230	15.2‡	7	CAH	3 1/8 x 1 3/4	3 3/16	3 3/4	2 1/4	3.2
23V100	115	17/18	3	LAV	1 5/8 x 2 3/8	3 1/8	2 9/16	2 13/16	3.2
23V101	115	17/18	6	LAV	2 1/2 x 2 11/16	3 13/16	3 5/16	3 3/16	5.5
25V06	115	17/21.5‡ 17/21.5‡	1.5 1.5	RC	2 11/16 x 2 11/16	4 1/8	3 7/16	3 7/16	5
27V69	115 ★	17/21.5‡ 17/21.5‡	1.5 1.5	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	4
27V70	115 ★	17/21.5‡ 17/21.5‡	4 4	LA	3 5/16 x 2 11/16	5 9/16	3 11/16	4 5/16	10.5
27V71	115 ★	17/21.5‡ 17/21.5‡	9 9	RC†	4 7/8 x 4 7/8	7	5 3/4	5 3/4	22
23V210	115	18.4CT	.9	BAH	2 13/16	2	3 1/16	1 3/4	.75
27V67	115	20CT	.3	EB	1 3/8 x 1 1/4	2 7/16	1 15/16	1 13/16	1.5
27V68	115	20CT	.6	EA	1 3/8 x 1 1/4	2 3/4	1 15/16	1 13/16	1.75
23V104	115	24/27/30/33/36	3	LAV	2 1/2 x 2 11/16	3 13/16	3 3/16	3 3/16	5.65
23V105	110/120	24/27/30/33/36	8	LAV	3 x 3 5/16	4 5/8	3 13/16	3 13/16	10.75
23V112	115	24/26/28/30	15	LHV	3 3/4 x 4 9/16	3 13/16	4 5/8	5 1/16	18.5
23V167	115	24	20	PUV	2 3/16 x 7	5 1/4	4 1/16	7 1/2	18
23V211	115	25.6	2	GGV	2 x 2 3/16	3 1/8	2 5/8	3 1/8	3
23V212	115	26CT	2.5	BAV	3 1/8	3 1/16	3 5/8	2 1/4	2
23V214	115	32CT	2	LAH	2 13/16 x 2	2 7/8	3 3/8	2 1/4	2.5
27V72	115 ★	34/43 ‡ 34/43 ‡	4.5 4.5	RC †	4 7/8 x 4 7/8	7	5 3/4	5 3/4	22
25V07	115 ★	34/43 ‡ 34/43 ‡	4.5 4.5	RC	4 7/8 x 4 7/8	7	5 3/4	5 3/4	22
23V102	115	36‡ 36‡	3 3	LAV	3 x 3 1/16	4 5/8	3 13/16	3 9/16	9.75
23V215	115	64CT	.9	BAH	3 9/16	2 1/2	4	2 1/4	1.75
23V89	115	72CT	.075	BAH	2 3/8	1 5/8	2 13/16	1 5/8	.6
23V68	115	77 Autoformer	8	GGV	3 1/16 x 3	4 5/8	3 3/4	4 1/4	6.75
23V122	115	80CT	1.2	GGV	2 1/2 x 2 3/8	3 1/2	2 7/8	3 1/2	4.5
23V216	115	92CT	1	LAH	2 1/8 x 2 1/2	2 5/8	3	2 7/8	2.3
23V110	110/120	140/150/160	.75	LAV	2 1/2 x 2 13/16	3 13/16	3 3/16	3 5/16	5.8
23V111	110/120	140/150/150	2.5	LAV	3 1/2 x 4	5 3/8	4 7/16	5	19
23V69	115	154 Autoformer	4	GGV	2 9/16 x 3	4 5/8	3 3/4	3 5/8	5

★ Primary tapped to produce lower secondary voltages

△ Top chassis mounting — lead holes on side of shield

‡ Windings may be connected in series or in parallel

† Hermetically sealed

27 SERIES

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Rectifier

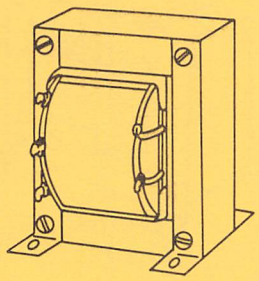
Multi-Tapped-Low Voltage Rectifier

SELENIUM OR SILICON RECTIFIERS
PRIMARY 117 VOLT 50/60 CYCLES

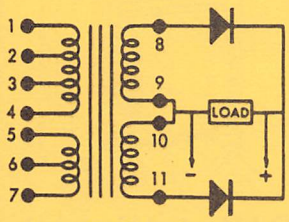
Each Selenium Rectifier Transformer listed in this section has terminal numbering and winding arrangement as shown in schematics. Primary connections are made to terminals 1, 2, 3, 4, 5, 6 and 7. The winding connected to terminals 5, 6 and 7 is a separate isolated primary winding, designed for the purpose of extending the voltage range of the transformer. This is accomplished by connecting the winding in series aiding or in series bucking with terminals 2, 3 or 4. Two identical secondary windings are connected to terminals 8 and 9 and to 10 and 11. Complete connection data supplied with each unit.

Part No.	Rectifier Circuit	Secondary AC Volts (Approx.)	OUTPUT* Res. or Ind. Load DC Volts	Res. or Ind. Load DCA	Capacitive Load DC Volts	Capacitive Load DCA	Recommended Capacitor	Mtg. Centers
23V60	Full Wave Bridge	11.7 to 29.4 11.1 to 28.5 Height 3 1/8	3.3 to 11.2 7.4 to 23.0 Width 2 1/2	2 1.25	3.5 to 13.8 8.7 to 30.0 Depth 3 3/8	2 1.25 Weight 2.5	1,000 MFD 500 MFD	2 x 2 1/8
23V61	Full Wave Bridge	12.2 to 29.7 12.2 to 29.7 Height 3 5/8	3.7 to 11.1 8.9 to 24.3 Width 2 7/8	4 2	4 to 14.7 10.8 to 33 Depth 3 1/2	4 2 Weight 3.8	2,000 MFD 1,000 MFD	2 1/4 x 2 3/8
23V62	Full Wave Bridge	11.7 to 29.2 11.8 to 29.2 Height 4	4.3 to 12 8.8 to 24 Width 3 1/4		4.5 to 14.5 11.4 to 32.4 Depth 4 1/8	8 4 Weight 6.1	4,000 MFD 2,000 MFD	2 1/2 x 2 7/8
23V63	Full Wave Bridge	12.0 to 29.8 12.0 to 29.6 Height 4 1/4	3.4 to 11.5 8.4 to 24 Width 3 7/16	12	3.9 to 14.4 10 to 32 Depth 5 1/8	12 6 Weight 9.1	6,000 MFD 3,000 MFD	2 3/4 x 3 1/4
23V64	Full Wave Bridge	12.2 to 29.7 12.1 to 29.2 Height 4 3/4	3.9 to 11.4 8.7 to 23.7 Width 3 3/4	15 8	4.4 to 14.8 10.4 to 32.5 Depth 5 1/4	15 8 Weight 12.6	7,500 MFD 4,000 MFD	2 15/16 x 3 3/4
23V66	Full Wave Bridge	12.2 to 29.1 12.2 to 29.0 Height 5 3/8	3.9 to 11.4 8.6 to 23.5 Width 4 3/8	22.5 12.0	4 to 14.3 10.8 to 33 Depth 6 3/8	22.5 12.0 Weight 20.5	11,250 MFD 6,000 MFD	3 1/2 x 4 1/4
23V65	Bridge	25 to 53.5 Height 5 3/8	8 to 44 Width 4 3/8	8	25 to 63 Depth 7 1/2	8 Weight 26	4,000 MFD	3 1/2 x 5 1/4
23V67	Bridge	25 to 53 Height 7 1/8	18 to 43.5 Width 5 5/8	12	24 to 60 Depth 6 1/4	12 Weight 23	6,000 MFD	4 5/8 x 5 1/2

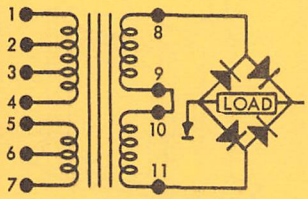
* DC Voltages may vary slightly from those shown due to rectifier voltage drops, lead loses and capacitor value used.



LHV



FULL WAVE CT



FULL WAVE BRIDGE

Rectifier Transformer Chart

THIS CHART HAS BEEN PREPARED TO SIMPLIFY THE CHOOSING OF THE CORRECT RECTIFIER TRANSFORMER FOR BOTH THE SELENIUM AND SILICON TYPE RECTIFIERS.

A WIDE RANGE OF VOLTAGES ARE AVAILABLE FROM EACH TRANSFORMER, WHICH MAY BE USED TO CHANGE THE DC OUTPUT VOLTAGE OR TO COMPENSATE FOR AGING RECTIFIERS.

ALL UNITS ARE FOR FULL WAVE CT CIRCUITS EXCEPT THOSE MARKED (#) WHICH ARE FOR FULL WAVE BRIDGE CIRCUITS.

RECTIFIER TRANSFORMERS

General Electric

SILICON RECTIFIERS

1N248	23V63
1N248R	23V63
1N248A	23V66
1N248RA	23V66
1N249	23V63
1N249R	23V63
1N249B/A	23V66
1N249RA	23V66
1N250/R	23V63
1N250A	23V66
1N250RA/B	23V66
1N1199A	23V63
1N1199RA	23V63
1N1200A/RA	23V63
1N1201A/RA	23V63
1N1202A/RA	23V63
1N1341A/RA	23V62
1N1342A/RA	23V62
1N1343A/RA	23V62
1N1344A/RA	23V62
1N2154/R	23V66
1N2155/R	23V66

SILICON CONTROLLED RECTIFIERS

C10U	23V61
C10F	23V61
C10A	23V61
C10G	23V61
C10B	23V61
C11U	23V61
C11F	23V61

RECTIFIER TRANSFORMERS

C11A	23V61
C11G	23V61
C11B	23V61

STACKED GERMANIUMS

4JA211AC1AB1	#23V60
4JA211AC1AB2	23V60
4JA211AC1AB3	23V61
4JA211AC1AB4	23V61
4JA211AC1AB5	23V62
4JA211AC1AB6	23V62

Federal

SELENIUM RECTIFIERS

010	23V61
011	23V61
012	23V62
013	23V62
014	23V63
015	23V64
016	23V66
210	#23V60
211	#23V61
212	#23V62
213	#23V63
214	#23V64
215	#23V66
216	#23V65•
217	#23V67•
312	#23V65
313	#23V65
314	#23V67
413	#23V68
814	#23V69

RECTIFIER TRANSFORMERS

International Rectifier

SELENIUM RECTIFIERS

J14C1	23V60
J14C5	23V61
J14C8	23V62
J14C17	23V66
J29B1	#23V60
J29B5	#23V61
J29B8	#23V62
J29B17	#23V66
117P	23V60
241G	23V62
240G	23V63
6F5	23V62
6F10	23V62
12F5	23V63
12F10	23V63

CONTROLLED RECTIFIERS

1RC2	23V60
1RC3	23V60
1RC5	23V60
1RC7	23V60
1R710	23V60
10RC2	23V63
10RC3	23V63
10RC5	23V63
10RC7	23V63
10RC10	23V63
16RC2	23V64
16RC3	23V64
16RC5	23V64
16RC7	23V64
16RC10	23V64

RECTIFIER TRANSFORMERS

I.T.T.

SILICON RECTIFIERS

1N248	23V63
1N248A	23V66
1N249	23V63
1N249A	23V63
1N347	#23V60
1N2228	#23V60
1N2229	#23V60
1N2246	23V61
1N2248	23V61
1N2249	23V61
1N2290	23V60
1N2446	23V66
1N2447	23V66
D5003AA	23V66
D5203BA	23V66
KS602AA	23V62
KS602BA	23V62
US123AA	23V63
US123BA	23V63

Radio Receptor

SELENIUM RECTIFIERS

H1B1S1G	#23V64
H2B1S1G	#23V65
H4B1S1G	#23V68
H1C1S1G	23V63
L1B1C1G	#23V65•
L1B2S1G	#23V67•
L2B1S1G	#23V67
L1C1S1G	23V64
U1BS1G	#23V61

RECTIFIER TRANSFORMERS

U1B1S1G	#23V62
U1C1S1G	23V62
S1B1S1G	#23V60
S1C1S1G	23V60
T1B1S1G	#23V64
T2B1S1G	#23V65
T1C1S1G	23V62
W1B1S1G	#23V63
W2B1S1G	#23V65
W6B1S1G	#23V69
W1C1S1G	23V62

Sarkes Tarzian

SELENIUM RECTIFIERS

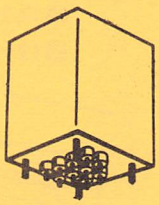
D-10	23V60
D-11	23V61
D-12	23V62
D-13	23V62
D-14	23V63
D-15	23V64
D-16	23V66
D-52	#23V60
D-17	#23V61
D-18	#23V62
D-19	#23V63
D-20	#23V64
D-21	#23V66
D-22	#23V65•
D-23	#23V67•
D-26	#23V65
D-27	#23V65
D-28	#23V67
D-34	#23V68
D-48	#23V69

RECTIFIER TRANSFORMERS

SILICON RECTIFIERS

5RNA	23V63
10J3N	23V63
10J3P	23V63
1N1065/10P3	23V62
1N1085/10LA	23V60
1N1086/20LA	23V60
1N1621/10J2	23V63
1N1622/20J2	23V63
L	23V60
L	#23V60
LF	23V62
LF	#23V66
M	#23V60
N2	23V60
N2	#23V61
N3	23V60
N3	#23V61
N4	23V60
N4	#23V61
P1	23V61
P1	#23V62
P2	23V62
P2	#23V64
P3	23V62
P3	#23V64
P4	23V62
P4	#23V64
Q4	23V66

• Parallel secondary windings.



MIL

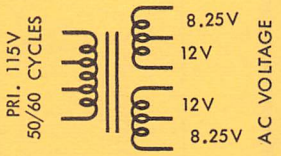
SEE PAGE 27

Low Voltage Rectifier-Mil-T-27A

LOW VOLTAGE DC SUPPLY—TRANSISTOR DC SUPPLY—TELEPHONE SUPPLY—
BATTERY CHARGES—BIAS SUPPLY—PLATING SUPPLY.
SEE VOLTAGE CHART BELOW.

PRIMARY 115 VOLTS 50/60 CYCLES

Part No.	Military DC Range	Industrial DC Range	MIL Case	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
27V60	6V - .065A to 53V - .02A	6V - .085A to 53V - .025A	AH	1 1/4	1 3/4	1 5/16	1 5/16	.37
27V61	6V - .22A to 53V - .07A	6V - .28A to 53V - .085A	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.6
27V62	6V - 1.2A to 53V - .4A	6V - 1.52A to 53V - .48A	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	1.75
27V63	6V - 3A to 53V - 1A	6V - 3.8A to 53V - 1.2A	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	4.5
27V64	6V - 7.5A to 53V - 2.5A	6V - 9A to 53V - 3A	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	8.5
27V65	6V - 18A to 53V - 6A	6V - 23A to 53V - 7.5A	OA	3 3/4 x 3	6 3/4	4 1/2	5 1/2	21
27V66	12V - 1.5A to 106V - .5A	12V - 1.9A 106V - .6A	HA	2 19/64 x 1 55/64	4 1/4	2 5/8	3 1/16	4.5



WITH -6%
+6 & 12%
PRIMARY TAPS

Mil-T-27A and Industrial Ratings

THE FOLLOWING CHART SHOWS THE DC CURRENT RATING (IN AMPS) AND THE APPROXIMATE DC VOLTAGE AT THE DIFFERENT AC VOLTAGE TAPS. CAPACITIVE INPUT FILTER VALUE (SHOWN IN PARENTHESIS) IS GIVEN IN 1,000 MFD. PRIMARY TAPS PROVIDE ADDITIONAL SECONDARY VOLTAGE VALUES OF -6%, +6% & +12%.

	FULL WAVE BRIDGE SILICON RECTIFIER								FULL WAVE CT		
AC Volts*	40.5	32.25	28.5	24	20.25	16.5	12	8.25	40.5CT	24CT	16.5CT
DC Volts*	53	41	34	25	24	18	12	6	24	12	6.6
27V60	.02 (.1)	.023(.1)	.025(.1)	.027(.1)	.042(.2)	.035(.2)	.055(.2)	.065(.2)	.035(.2)	.040(.2)	.055(.2)
27V60#	.025(.1)	.035(.1)	.040(.1)	.042(.1)	.055(.2)	.042(.2)	.070(.2)	.085(.2)	.042(.2)	.055(.2)	.068(.2)
27V61	.07 (.1)	.08 (.1)	.085(.1)	.09 (.1)	.14 (.2)	.11 (.2)	.18 (.2)	.22 (.2)	.11 (.2)	.13 (.2)	.17 (.2)
27V61#	.085(.1)	.12 (.1)	.13 (.1)	.14 (.1)	.18 (.2)	.14 (.2)	.23 (.2)	.28 (.2)	.14 (.2)	.17 (.2)	.21 (.2)
27V62	.4 (.5)	.44 (.5)	.48 (.5)	.52 (.5)	.8 (1)	.6 (1)	1.0 (2)	1.2 (2)	.6 (1)	.72 (1)	.92 (2)
27V62#	.48 (.5)	.6 (.5)	.6 (.5)	.64 (.5)	1.0 (1)	.8 (1)	1.2 (2)	1.52 (2)	.8 (1)	.88 (1)	1.12 (2)
27V63	1 (.5)	1.1 (.5)	1.2 (.5)	1.3 (.5)	2 (1)	1.5 (1)	2.5 (2)	3 (2)	1.5 (1)	1.8 (1)	2.3 (2)
27V63#	1.2 (.5)	1.5 (.5)	1.5 (.5)	1.6 (.5)	2.5 (1)	2 (1)	3 (2)	3.8 (2)	2 (1)	2.2 (1)	2.8 (2)
27V64	2.5 (1)	3 (1)	3 (1)	3.5 (1)	5 (2)	3.7 (2)	6 (4)	7.5 (4)	3.7 (2)	4.5 (2)	5.5 (4)
27V64#	3 (1)	3.5 (1)	3.8 (1)	4 (1)	6 (2)	4.5 (2)	7.5 (4)	9 (4)	4.5 (2)	5.5 (2)	6.7 (4)
27V65	6 (4)	7 (4)	7.5 (4)	8 (4)	12 (6)	9 (6)	15 (12)	18 (12)	9 (6)	11 (6)	13.5 (12)
27V65#	7.5 (4)	8.5 (4)	9.5 (4)	10 (4)	15 (6)	11 (6)	19 (12)	23 (12)	11 (6)	13.5 (6)	17 (12)

AC Volts*	81	64.5	57	48	40.5	33	24	16.5	81CT	48CT	33CT
DC Volts*	106	82	68	50	48	36	24	12	48	24	13
27V66	0.5 (.125)	0.55 (.125)	0.6 (.125)	0.65 (.125)	1.0 (.25)	0.75 (.25)	1.25 (.5)	1.5 (.5)	0.75 (.25)	0.9 (.25)	1.15 (.5)
27V66#	0.6 (.125)	0.75 (.125)	0.75 (.125)	0.8 (.125)	1.25 (.25)	1.0 (.25)	1.5 (.5)	1.9 (.5)	1.0 (.25)	1.1 (.25)	1.4 (.5)

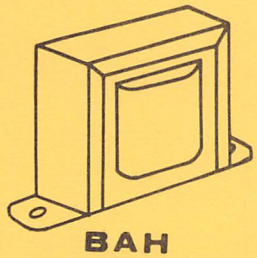
* Nom. AC and DC volts are at 115 volt input . . . primary taps can modify —6%, +6%, and +12%
\# Industrial Ratings

Control

Automation Control Transformer

These units have been ruggedized to provide trouble free performance for high speed automatic assembly equipment. Particularly well adapted to relays and pilot lamps.

Part No.	V.A. Rating	Secondary		Mtg. Type	Mtg. Centers	Dimensions			Wt. Lbs.
		Parallel	Series			H	W	D	
23V50	12	6V @ 2A	12V @ 1A	BHV	2 3/8	2 3/8	2 7/8	2	.75
23V51	24	6V @ 4A	12V @ 2A	BHV	2 7/8	3 5/8	3 3/8	2 1/4	1.5
23V52	48	12V @ 4A	24V @ 2A	BHV	3 1/8	3 1/8	3 5/8	2 3/8	2
23V53	96	12V @ 8A	24V @ 4A	CHV	2 3/8 x 2 1/4	3 3/8	2 7/8	3	3.5
23V54	192	12V @ 16A	24V @ 8A	CHV	2 7/8 x 2 3/4	4 1/8	3 1/2	3 1/2	8

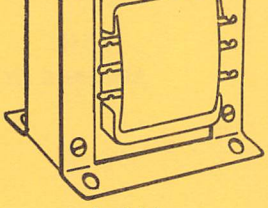


BAH
BGH shielded

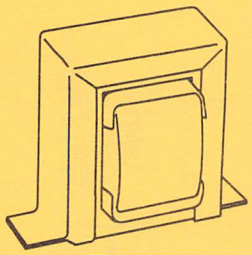
Signaling And Power Circuit Transformers

(Also see Control Service Transformers next page.)

Part No.	VA Output	Primary Voltage	Secondary		Mtg. Type	Mtg. Centers	Dimensions			Wt. Lbs.
			Voltage	Amps.			H	W	D	
23V226	36	115	6/12/18/24	1.5	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.5
23V223	406	100/115/125	6/10/15/20/25	1.6 Max.▪	BGH	3 9/16	2 1/2	4	2 1/2	2
23V03	48	115	4/8/12/16/20/24	2 Max.▪	BAH	3 1/8	2 1/4	3 11/16	2 1/2	1.7
23V40	50	115	4/8/12/16/24	2.08 Max.▪	GTV	2 1/4 x 1 7/8	3 9/16	3	3 1/2	3
27V28	50	115	4/8/10/12/14	3.5 Max.▪	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	5
23V04	96	115	4/8/12/16/20/24	4 Max.▪	LAV	2 1/4 x 2 1/16	3 1/2	2 7/8	2 9/16	3.1
23V41	100	115	4/8/12/16/24	4.2 Max.▪	GTV	2 1/2 x 2 1/8	4	3 1/4	4	5
23V42	250	115	4/8/12/16/24	10.5 Max.▪	GTV	3 x 3 1/4	4 5/8	4	5	10
23V221	1,200	115	4§ 8 16 20	150 Max.§ 150 Max. 75 Max. 20 Max.	CTH	6 x 4 1/4	6 1/2	5 5/16	7	37
23V222	1,900	115/220	8§ 16 32 64 128	180 Max.§ 100 Max. 30 Max. 30 Max. 10 Max.	CTH	8 x 5	7 5/8	9	6	54



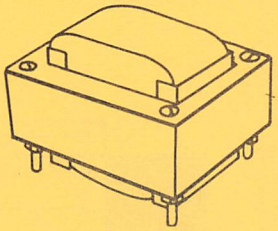
LAV
CAV leads
CHV lugs



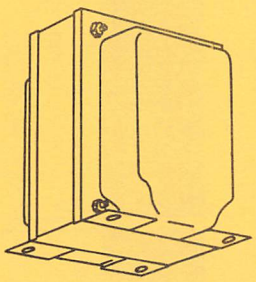
BAV lugs
BHV leads

Low Voltage Control

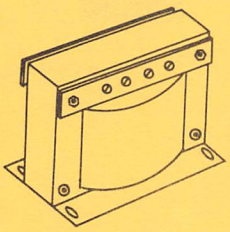
Part No.	VA Output	Primary Voltage	Secondary		Mtg. Type	Mtg. Centers	Dimensions			Wt. Lbs.
			Voltage	Amps.			H	W	D	
23V153	.5	115**	24	40 MA	DAF	-	7/8	3/4	1	.1
23V141	1.2	115	12	100 MA	BAH	1 3/4	1 3/16	2 1/8	1	.2
23V154	3.1	115**	24	130 MA	BGH	2	1 3/8	2 3/8	1 3/8	.5
23V147	4.5	115**	20	225 MA	BAH	2 3/8	1 5/8	2 13/16	1 5/8	.5
23V172	5.6	115**	28	200 MA	BAV	2 3/8	2 3/8	2 7/8	2 1/8	1.2
27V31	7.2	115**	6	1.2	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.75
23V156	9.6	220**	24	400 MA	BAV	2 1/8	2	2 5/8	1 5/8	.5
23V155	10	115	24	417 MA	BAV	2 3/8	2 3/8	2 7/8	1 3/4	.8
23V157	10	115/230	24	417 MA	BAH	2 3/8	1 5/8	2 13/16	1 7/8	.5
23V50	12	115/230	6 12	2 or 4	BHV	2 3/8	2 3/8	2 7/8	2	.75
23V225	14.5	110/115**	4/6.75/7.25	2	BAH	2 13/16	2	3 1/8	2 1/8	1.5
23V158	14.5	115	24	600 MA	BAH	2 13/16	2	3 1/8	1 3/4	1.2
23V168	15	115	25	600 MA	BAV	2 3/8	2 3/8	2 7/8	1 3/4	.8
21F27	16	115	26.5CT	600 MA	BAH	2 13/16	2	3 1/4	2 1/8	1.6
23V51	24	115/230	6 or 12	4 2	BHV	2 13/16	3 5/8	3 3/8	2 1/4	1.5
21F68	24	115	24	1	BAH	2 13/16	2	3 1/4	2	1.3
21F84	24	115	24CT	1	BAH	2 13/16	2	3 1/4	2	1.3
23V160	24	115	24	1	BGH	2 13/16	2	3 1/4	1 7/8	1.3
23V159	24	110/220	24	1	BAH	2 13/16	2	3 1/4	1 7/8	1.3
23V134	25	115	1	25	CAV	2 x 1 3/4	3	2 1/2	2 1/2	2
21F51	25.2	115	25.2	1	BAH	2 13/16	2	3 1/4	2	1.3
23V176	25.6	220**	32	800 MA	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.7
21F82	26.8	115	26.8CT	1	BAH	2 13/16	2	3 1/4	2	1.3
23V226	36	115	6/12/18/24	1.5	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.5



DAF



GTV lugs

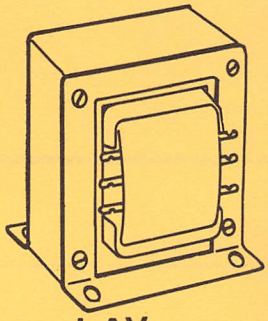


CTH

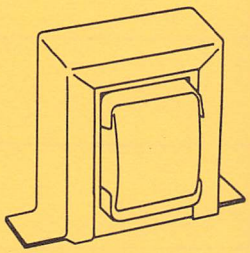
AJ SEE PAGE 27

JB SEE PAGE 27

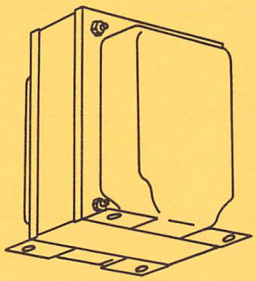
§ Any combination of the given voltages and currents may be used as long as the total VA does not exceed the rated VA.
δ Unit has internal 80°C thermal cutout for maximum protection.
▪ Maximum current may be increased 40% when using any of the 3 low voltage taps.
** 60 Cycles



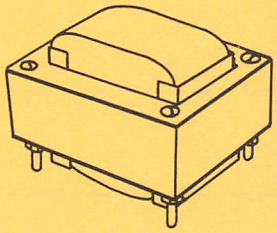
LAV
CAV leads
CHV lugs



BAV lugs
BHV leads



GTV lugs



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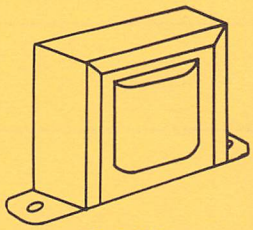
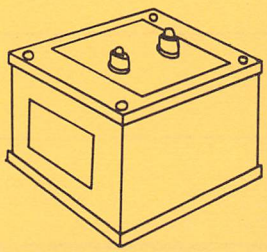


BAH
BGH shielded



KTV
JB SEE PAGE 27
MB SEE PAGE 27

Low Voltage Control

continued

Part No.	VA Output	Primary Voltage	Secondary Voltage	Secondary Amps.	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
23V163	36	115	24	1.5	BAV	2 13/16	2 11/16	3 5/16	2 1/4	1.3
23V223	40 δ	100 /115/125	6/10/15/20/25	1.6 Max.■	BGH	3 9/16	2 1/2	4	2 1/2	2
23V03	48	115	4/8/12/16/20/24	2 Max.■	BAH	3 1/8	2 1/4	3 11/16	2 1/2	1.7
23V224	48	115**	12 12	2 2	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.5
23V52	48	115/230	12 or 24	4 2	BHV	3 1/8	3 1/8	3 5/8	2 3/8	2
23V40	50	115	4/8/12/16/24	2.08 Max.■	GTV	2 1/4 x 1 7/8	3 9/16	3	3 1/2	3
27V28	50	115	6/8/10/12/14	3.6 Max.■	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	5
23V142	50	220	12	4.16	BAV	3 1/8	3 1/16	3 5/8	2 1/4	2
23V144	50	120	16	3.12	CAH	2 13/16 x 2 7/8	2 7/8	3 3/8	2 1/4	3
23V165	50	220	24	2.08	GGV	2 x 2 1/4	3 1/2	2 7/8	3 1/4	2.8
23V166	50	440	24	2.08	GGV	2 x 2 1/4	3 1/2	2 7/8	3 1/4	2.8
21F83	50.	115	25.2CT	2	BAH	3 9/16	2 5/8	4	2 1/4	2.2
23V177	54	440	32	1.56	CAV	2 1/4 x 2	3 7/16	2 13/16	2 1/2	3.4
23V151	80	115/230	22.6	3.5	LAV	2 x 2 1/4	3 1/16	2 1/2	2 1/4	3
23V152	80	230	22.8	3.5	GGV	2 1/4 x 2	3 1/2	2 7/8	3 1/4	3
23V04	96	115	4/8/12/16/20/24	4 Max.■	LAV	2 1/4 x 2 1/16	3 1/2	2 7/8	2 9/16	3.1
23V53	96	115/230	12 or 24	8 4	CHV	2 3/8 x 2 1/4	3 3/8	2 7/8	3	3.5
23V41	100	115	4/8/12/16/24	4.2 Max.■	GTV	2 1/2 x 2 1/8	4	3 1/4	4	5
23V145	100	115	16	6.25	CAH	3 1/8 x 2	3 1/8	3 3/4	2 1/2	3.5
23V148	120	115	20	6	GGV	2 1/2 x 2 5/8	3 7/8	3 1/8	3 3/4	5
23V146	180	115	18	10	CTH	3 7/16 x 2 3/8	3 1/2	4 1/8	3 1/2	6
23V218	190	115/230	7.5/12.5	15	CAV	2 1/2 x 2 1/4	3 7/8	3 1/8	2 3/4	4.5
23V54	192	115/230	12 or 24	16 8	CHV	2 7/8 x 2 3/4	4 1/8	3 1/2	3 1/2	8
25V21.	200	115	16/18/20	10	KTV	4 1/16 x 3 5/16	5 1/2	5 1/16	4 5/16	11
23V143	240	115	12	20	GGV	3 x 3 5/8	4 5/8	3 3/4	4 3/4	10
23V42	250	115	4/8/12/16/24	10.5 Max.■	GTV	3 x 3 1/4	4 5/8	4	5	10
27V32	250	115	26	9.6	MB	3 11/16 x 3	4 15/16	4	4 11/16	13
23V181	250	115	48	5.2	CTH	3 3/4 x 2 3/4	3 7/8	4 1/2	3 3/8	7
23V180	430	115	36	12	CTH	4 1/16x3 3/8	4 1/8	4 7/8	4	14
23V221	1,200	115	4§ 8 16 20	150 Max.§ 150 Max. 75 Max. 20 Max.	CTH	6 x 4 1/4	6 1/2	5 5/16	7	37
23V138	1,200	115	8	150	CAH	7 3/4 x 4 1/8	6 1/2	8 3/4	6 1/4	21
23V222	1,900	115/230	8§ 16 32 64 128	180 Max.§ 100 Max. 30 Max. 30 Max. 10 Max.	CTH	8 x 5	7 5/8	9	6	54

Control Service Transformers

D-11 — MOUNTING DOUBLE WOUND 50/60 CYCLE

WIRING DIAGRAMS AND INSTRUCTIONS are furnished with each unit. The 24 Volt and 32 Volt secondary leads have individual grommets for each stranded lead. All primary and 115 Volt secondary leads are brought out through a threaded pipe nipple for attaching conduit or a bushing.

APPLICATIONS:

small motors and pumps
oil burner controls
signaling systems
solenoids and relays
burglar alarms
heating elements
control systems
switchboards and panels
pilot lights
electrically operated valves for controlling the flow of gas or liquids

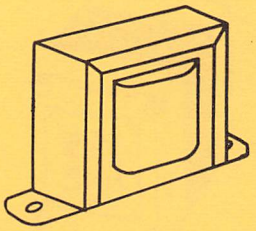
Part No.	VA Output	Primary Voltage	Secondary Voltage	Wiring Diagram	Mtg. Centers D	Mtg. Centers E	Dimensions A	Dimensions B	Dimensions C	Wt. Lbs.
G-326	25	115	24	S-5	2 1/8	1 3/8	3 1/4	2 1/2	2 11/16	2
G-327	50	115	24	S-5	2 1/8	1 7/8	3 1/4	2 1/2	3 1/4	2.75
G-328	75	115	24	S-5	2 5/8	2 1/8	4 1/8	3 1/4	3 1/2	4.25
G-329	100	115	24	S-5	2 5/8	2 1/4	4 1/8	3 1/4	3 5/8	5
G-330	150	115	24	S-5	3	2 1/2	4 15/16	3 15/16	4 3/16	8.25
G-331	250	115	24	S-5	3	3 1/4	4 15/16	3 15/16	4 15/16	9.5
G-332	50	115	32	S-5	2 1/8	1 7/8	3 1/4	2 1/2	3 1/4	2.75
G-333	100	115	32	S-5	2 5/8	2 1/4	4 1/8	3 1/4	3 9/16	5
G-334	150	115	32	S-5	3	2 1/8	4 15/16	3 15/16	4 3/16	8.25
G-335	250	115	32	S-5	3	3 1/4	4 15/16	3 15/16	4 15/16	9.5
G-336	25	230/460	115	S-6	2 1/8	1 3/8	3 1/4	2 1/2	2 11/16	2
G-337	50	230/460	115	S-6	2 1/8	2 1/8	3 1/4	2 1/2	3 7/16	3.25
G-338	75	230/460	115	S-6	3 1/4	2	3 1/2	3 7/8	3 7/16	4.25
G-339	100	230/460	115	S-6	3 1/4	2 3/8	3 1/2	3 7/8	3 13/16	5.5
G-340	150	230/460	115	S-6	3	2 1/2	4 15/16	3 15/16	4 3/16	8
G-341	250	230/460	115	S-6	3	3 1/4	4 15/16	3 15/16	4 15/16	11

■ Maximum current may be increased 40% when using any of the 3 low voltage taps.
δ Unit has internal 80°C thermal cutout for maximum protection.
§ Any combination of the given voltages and currents may be used as long as the total VA does not exceed the rated VA.

NOTES

Isolation Control 1:1:1:1 Multi-purpose

This series has four isolated windings with seven possible combinations: for step-up, step-down, and isolation applications in industrial, home or laboratory use. They are particularly well adapted to 220-volt line step-down to provide 115-volt power source to operate machine tools and other automated equipment.

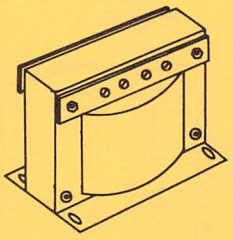


BAH

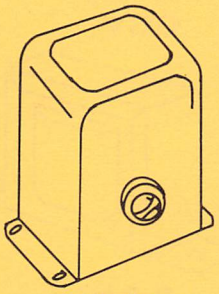
Part No.	VA Output	Primary Voltage	Secondary Voltage	✪ Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
23V34	50	115/230	115/230	CTH	2 1/2 x 2 1/8	2 5/8	3	2 1/2	2.75
23V35	100	115/230	115/230	CTH	3 1/8 x 2 1/8	3 1/4	3 3/4	2 7/8	5
23V36	200	115/230	115/230	CTH	3 3/4 x 2 3/4	2 7/8	4 1/2	3 5/8	9
23V37	300	115/230	115/230	CTH	4 1/8 x 2 7/8	4 1/8	4 7/8	3 3/4	11
23V38	500	115/230	115/230	CTH	4 1/8 x 4 1/8	4 1/8	4 7/8	5	17
27V21	670	115/230	115/230	CTH‡	5 5/16 x 4 1/4	5 1/2	6 1/2	5 3/4	21
23V39	1,000	115/230	115/230	CTH	5 3/8 x 4 1/2	5 3/8	6 3/8	5 1/2	23
23V197	2,500	115/230	115/230	CTH	8 x 4 1/2	7 5/8	9	5 1/2	40

Isolation Transformers

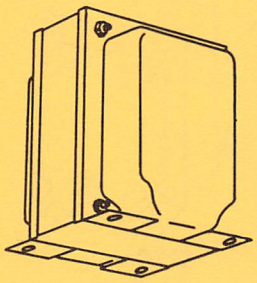
Isolation control transformers provide 115 Volts power or lighting within machine tools or other automated equipment from various line voltages from 115 Volts to 600 Volts. They also permit direct grounded lighting systems or control circuits independent of power distribution grounds for greater operator safety.



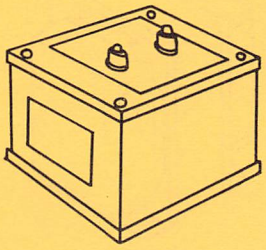
CTH



TMV



GGV



KAV

Part No.	VA Output	Primary Voltage	Secondary Voltage	Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
25V22	15	440	115	KAV	6 3/8x2 9/16to 3 1/8	4 5/32	7 1/8	4 11/16	2
23V195	20	440	110	BAH	2 13/16	2	3 3/16	2 1/8	1
27V47	25	115	115	GA†	1 3/4 x 2 1/8	3 13/16	2 3/8	2 3/4	2.5
27V20	25	440	220	TSV	1 3/4 x 2 11/16	3 5/16	2 1/2	3	2
23V17	35	115	115	BAH	3 1/8	2 1/4	3 13/16	2 1/4	1.75
23V86	40	110-120	110-120	GMV	2 x 1 7/8	3 1/8	2 5/8	3 1/8	4
27V54	40	115 400 Cycle	115	EA	1 3/8 x 1 1/4	2 3/4	1 13/16	1 15/16	1.5
23V80	40	115/230	115	BAH	3 1/8	2 1/4	3 13/16	2 1/2	1.75
23V45	50	115	115	GMV	2 1/2 x 1 15/16	3 7/8	3 1/4	3 1/4	4.25
25V16	50	105/115/125	115 or 125/115/105 With 115 V. Pri.	TMV*	2 3/4 x 3 7/8	2 3/4	3 11/16	4 7/16	5
27V44	50	115/230	105/115/125	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	4.7
23V198	50	115/230/460	115	CTH	2 1/2 x 2 1/8	2 5/8	3	2 3/8	2.6
23V95	50	230/440	115	GGV	2 x 1 3/4	3 3/32	2 5/8	2 1/2	2.3
25V23	50	240/480	120/240	KAV	6 3/8x2 9/16to3 1/8	4 5/32	7 1/8	4 11/16	2.75
25V24	50	550/600	110/220	KAV	6 3/8x2 9/16to3 1/8	4 5/32	7 1/8	4 11/16	2.5
23V18	80	115	115	GGV	2 1/2 x 2 5/16	3 7/8	3 3/16	3 1/2	5
27V55	80	115 400 Cycle	115	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	2
23V48	100	115	115	GMV	3 x 2 7/16	4 3/4	3 7/8	3 1/2	6.5
23V25	100	105/115/125	115	GMV	2 3/4 x 3 1/16	4 1/4	3 1/2	3 7/8	6.2
23V87	100	110/120	110/120	GMV	2 1/2 x 2 3/8	3 7/8	3 3/4	3 1/4	6
25V17	100	105/115/125	115 or 125/115/105 With 115 V. Pri.	TMV*	2 1/2 x 4 3/4	5 5/16	4 9/16	5 1/4	8.5
23V128	100	210/230/250	115	GMV*	3 x 2 9/16	4 3/4	4	3 3/4	7.3
25V25	100	440	115	KAV	8 3/8x2 9/16to3 1/8	4 3/4	9 1/8	4 11/16	6
27V23	115	115	115	KB	3 x 2 7/16	4 5/16	3 3/8	3 15/16	6
27V48	115	115	115	KA†	3 x 2 7/16	5 1/4	3 3/8	3 15/16	8.5
27V45	125	115/230	105/115/125	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	8.5
23V69	150	115	67.5-115††	GGV	2 1/2 x 3	3 7/8	3 9/32	3 7/8	7
23V49	150	115	115	GMV	3 x 2 9/16	4 3/4	3 7/8	3 3/4	7
25V18	150	105/115/125	115 or 125/115/105 With 115 V. Pri.	TMV*	3 1/2 x 5 3/8	6 1/16	5 7/8	5 5/16	12.5
23V59	150	115	115/230	GGV	2 1/2 x 3	3 7/8	3 9/32	3 7/8	7
23V74	150	115/230	115	GGV	2 1/2 x 3	3 7/8	3 9/32	3 7/8	7
23V96	150	220/440	115	GGV	2 1/2 x 2 1/2	3 7/8	3 9/32	3 3/8	5.5
25V26	150	440	115	KAV	8 3/8x2 9/16to3 1/8	4 3/4	9 1/8	4 11/16	6
23V199	150	200/220/380/ 400/440/500/ 550	125	CAH	3 7/16 x 2 1/2	3 1/2	4 1/8	3	6
27V56	160	115 400 Cycle	115	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	3.1

†† Split Winding
† Ultrashielded — epoxy potted with leads
* Complete with tap switch
‡ Encapsulated to meet MIL-T-27A

✪ 27 SERIES

CONTINUED NEXT PAGE

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Control

Isolation Transformers continued

Isolation control transformers provide 115 Volts power or lighting within machine tools or other automated equipment from various line voltages from 115 Volts to 600 Volts. They also permit direct grounded lighting systems or control circuits independent of power distribution grounds for greater operator safety.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
25V20	175	115	115	TMV	2 1/2 x 4 3/4	5 5/16	5 1/4	4 9/16	9
23V33	185	115	115	GMV	2 3/4 x 3 11/16	4 1/4	3 1/2	4 3/4	7
23V58	250	115	115	GMV	3 x 3 9/16	4 3/4	3 7/8	5 3/4	12.5
23V126	250	115	125/115/105	GMV*	3 x 4 5/16	4 3/4	4	5 3/8	14.2
25V19	250	105/115/125	115 or 125/115/105 With 115 V. Pri.	TMV*	3 1/2 x 5 3/8	6 1/16	5 7/8	5 5/16	18.2
23V94	250	115/230	115	GGV	3 x 3 5/8	4 5/8	3 15/16	4 3/4	11
23V90	250	220	120	GMV	3 x 3 1/2	4 5/8	3 7/8	4 7/8	12
27V46	250	115/230	105/115/125	NB	4 1/16 x 3 5/16	5 1/2	4 5/16	5 1/16	17.2
23V129	250	210/230/250	115	GMV*	3 x 4 5/16	4 3/4	4	5 3/8	14.2
25V27	250	440	115	KAV	8 3/8 x 2 9/16 to 3 1/8	4 3/4	9 1/8	4 11/16	12
27V49	300	115	115	NB†	4 1/16 x 3 5/16	5 1/2	4 5/16	5 1/16	20
23V26	300	105/115/125	115	PUV	2 3/4 x 6 1/4	6	4 3/4	7 1/8	18
27V57	300	115 400 Cycle	115	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	6.2
23V133	300	220/440	115	GGV	3 x 3 3/8	4 5/8	3 15/16	4 1/2	10.2
23V19	350	115	105/115/125	GMV	3 1/2 x 3 7/8	5 3/8	4 1/2	5 3/4	13
23V28	500	105/115/125	115	GMV	4 5/8 x 4 1/4	6 3/8	5 3/8	7 5/8	22
23V130	500	210/230/250	115	GMV*	4 5/8 x 4 1/4	7 3/4	5 5/8	7 1/2	29.5
27V58	500	115 400 Cycle	115	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	8.75
23V44	600	115	115	GMV	3 x 6	4 5/8	3 7/8	6 1/4	16
27V24	600	115	115	YY	4 1/4 x 5 1/8	6 3/4	5 3/4	6 1/4	27
23V27	1,000	105/115/125	115	JUV#	4 5/8 x 5 3/4	9 7/8	6 3/4	6 1/4	38
27V25	1,000	115	115	YY	4 1/4 x 4 1/2	6 3/4	5 3/4	6 1/4	35
27V19	1,000	440	115	YY	5 1/8 x 4 1/4	6 3/4	6 1/4	5 3/4	40
23V88	1,200	110/120	110/120	GMV	3 5/8 x 6 5/8	5 7/8	4 1/2	8 1/2	30

Autoformers 50/60 CYCLES

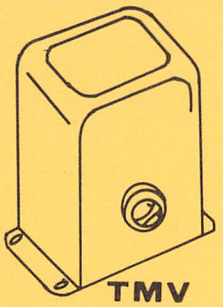
These Autoformers provide a smaller and more economical method of changing from 115 to 220 or 220 to 115 Volts. They provide correct line voltages for machine tool control units such as sequence timers, solenoids and lighting systems.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
23V79	50	230	115	BAH	3 1/8	2 1/4	3 5/8	2	1.5
25V10	50	220/250	110/125	TMV	2 x 3 1/8	3 9/16	3 1/2	2 7/8	2.7
23V70	65	230	115	GMV	2 x 1 11/16	3 1/16	2 1/2	2 3/4	2.7
23V202	80	115	230	CAV	1 3/4 x 2 1/4	2 5/8	2 3/16	2 7/8	2
23V81	85	220/240	110/120	GMV	2 x 1 7/8	3 1/8	2 5/8	2 7/8	4
23V21	100	220/250	110/125	GMV	2 1/2 x 1 3/4	3 7/8	3 1/4	2 7/8	3
23V71	100	230	115	GMV	2 x 2 1/4	3 1/2	3	3 1/8	3.7
25V11	100	220/250	110/125	TMV	2 3/4 x 3 7/8	4 5/16	3 11/16	4 7/16	6.5
23V82	125	220/240	110/120	GMV	2 1/16 x 2 1/4	3 1/2	3	3 1/2	4
23V22	150	220/250	110/125	GMV	2 x 2 1/2	3 7/8	3 1/4	3 1/8	4
25V12	150	220/250	110/125	TMV	2 1/2 x 4 3/4	5 5/16	4 9/16	5 1/4	9
23V83	175	220/240	110/120	GMV	2 1/2 x 2 1/4	3 7/8	3 1/4	3 3/4	5.5
23V23	250	220/250	110/125	GMV	3 x 2 3/8	4 5/8	3 7/8	3 1/2	6.2
23V72	250	230	115	GMV	2 3/4 x 2 7/8	4 1/4	3 7/8	3 1/2	7
25V13	250	220/250	110/125	TMV	2 1/2 x 4 3/4	5 5/16	4 9/16	5 1/4	8.7
23V20	300	230	115	GMV	3 x 3 1/16	4 5/8	3 7/8	4 1/8	10
23V24	500	220/250	110/125	GMV	3 x 3 3/8	4 5/8	3 7/8	4 1/2	10.2
25V14	500	220/250	110/125	TMV	3 1/2 x 5 3/8	6 1/16	5 7/8	5 5/16	14.5
23V78	600	230	115	GMV	3 x 3 7/8	4 5/8	4	5	12
23V73	1,000	230	115	GMV	3 1/2 x 4 1/4	5 1/4	4 3/8	5 3/4	19.5
23V32	1,000	220/250	110/125	JUV#	4 1/4 x 3 1/2	6 5/8	5	6 5/8	20
25V15	1,000	220/250	110/125	TMV	4 1/4 x 6	7 1/16	6 1/8	6 1/2	22
23V201	1,000	120	440	GGV	3 7/16 x 5 5/8	5 3/4	4 1/4	7 1/2	25
23V84	1,200	220/240	110/120	GMV	3 x 5 1/2	4 5/8	3 7/8	6 7/8	18
23V120	2,000	230	115	GMV	3 1/2 x 6 7/8	5 5/16	4 1/2	7 7/8	33
23V85	2,500	220/240	110/120	JUV	3 7/8 x 9 7/8	6 3/4	4 3/4	10 1/2	30
23V200	3,000	230	115	JUV	4 1/4 x 6	6 3/8	5 5/16	7 5/8	40
23V46	3,000	208 or 230	230 or 208	GMH	2 1/2 x 3 3/4	4	4 1/2	6	10

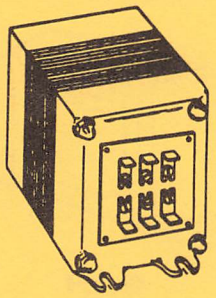
† Ultrashielded —epoxy potted with leads

\# Has octagon outlet box for house wiring connections

* Complete with tap switch



TMV



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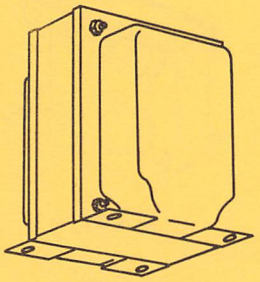
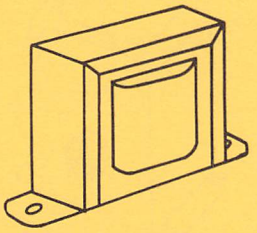


GGV



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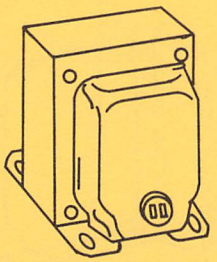
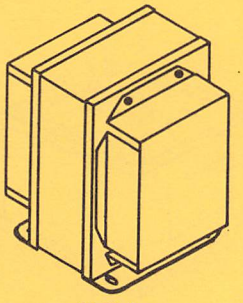


GMV

GMH

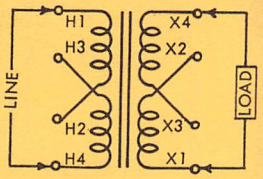
GMH SAME AS GMV BUT WITH HORIZONTAL MOUNTING



JUV

27 SERIES FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

WIRING DIAGRAM S-1



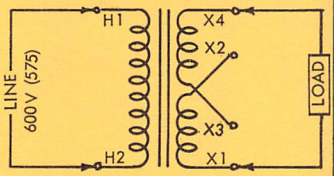
PRI. 480 V (460) CONNECT H2 - H3

SEC. 240 V (230) CONNECT X2 - X3

PRI. 240 V (230) CONNECT H1 - H3 & H2 - H4

SEC. 120 V (115) CONNECT X1 - X3 & X2 - X4

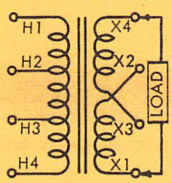
WIRING DIAGRAM S-2



SEC. 240 V (230) CONNECT X2 - X3

SEC. 120 V (115) CONNECT X1 - X3 & X2 - X4

WIRING DIAGRAM S-3

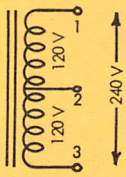


SEC. 240 V (230) CONNECT X2 - X3

SEC. 120 V (115) CONNECT X1 - X3 & X2 - X4

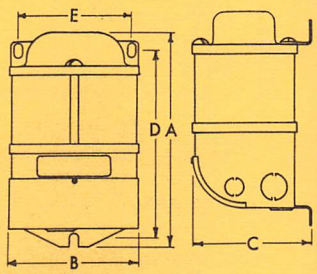
PRI. VOLTS G-316	PRI. VOLTS G-317	CONNECT LINE TO
480	600	H1 - H4
456	570	H1 - H3
432	540	H1 - H2

WIRING DIAGRAM S-4

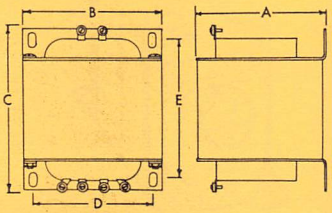


PRI. 240 V (230) CONNECT LINE TO 1 - 3

PRI. 120 V (115) CONNECT LINE TO 1 - 2



D-1



D-111

Dry Type - Distribution

INDOOR — SINGLE PHASE — DOUBLE WOUND — 50/60 CYCLES D-1 MOUNTING.

DRY TYPE GENERAL PURPOSE TRANSFORMERS are supplied in either double winding isolation or single winding auto-transformer types for 50/60 CPS applications. Either type may be used single phase or connected in a group of three for three phase. All units are Class B insulation for 80°C rise except the units marked (§) Class A for 55°C rise.

CASE AND JUNCTION BOX. A stamped steel case encloses the entire coil assembly and presents an attractive appearance. The junction box is an integrated part of the case and provides easy access and wiring to the individually marked primary and secondary leads. Knock outs are provided on the junction box for attaching conduit or bushings.

WIRING DIAGRAMS AND INSTRUCTIONS are furnished with each unit. On the inside of the junction box cover, a decal shows the schematic diagram and ratings of each transformer.

APPLICATIONS

1. To provide 120 Volt Lighting or 120/240 Volt Power from 240-480-600 Volt distribution circuits.
2. To insulate or isolate lighting circuits from power circuits allowing the use of grounded or ungrounded circuits independent of power or other lighting circuit grounds.
3. The auto-transformers provide a smaller and more economical method of voltage changing. These auto-transformers may be used to obtain 120 Volts from a 240 Volt circuit, to establish a neutral ground from a 240 Volt circuit, or to balance the 120/240 Volt loading on a three phase line to obtain lower demand billing by the utility company.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Wiring Diagram	Mtg. Centers D	Mtg. Centers E	Dimensions A	Dimensions B	Dimensions C	Wt. Lbs.
G-301	50§	230/460	115/230	S-1	5 3/8	2 1/2	6 1/4	3 3/16	3	3.5
G-302	50§	575	115/230	S-2	5 3/8	2 1/2	6 1/4	3 3/16	3	3.5
G-303	75§	230/460	115/230	S-1	5 3/4	2 1/2	6 1/2	3 3/16	3	4
G-304	75§	575	115/230	S-2	5 3/4	2 1/2	6 1/2	3 3/16	3	4
G-305	100	240/480	120/240	S-1	6	2 1/2	6 13/16	3 3/16	3	5
G-306	100	600	120/240	S-2	6	2 1/2	6 13/16	3 3/16	3	3.5
G-307	150	240/480	120/240	S-1	6 3/8	3 1/4	7 3/8	3 7/8	3 1/2	6
G-308	150	600	120/240	S-2	6 3/8	3 1/4	7 3/8	3 7/8	3 1/2	6
G-309	250	240/480	120/240	S-1	7	3 1/4	8	3 7/8	3 1/2	8
G-310	250	600	120/240	S-2	7	3 1/4	8	3 7/8	3 1/2	8
G-311	500	240/480	120/240	S-1	8 7/8	3 7/8	10	4 11/16	4 9/32	15
G-312	500	600	120/240	S-2	8 7/8	3 7/8	10	4 11/16	4 9/32	15
G-313	750	240/480	120/240	S-1	10 7/8	3 7/8	12	4 11/16	4 9/32	20
G-314	750	600	120/240	S-2	10 7/8	3 7/8	12	4 11/16	4 9/32	20
G-315	1,000	240/480	120/240	S-1	8 3/4	4 1/2	10 1/4	5 1/2	4 7/8	29
G-316	1,000	480*	120/240	S-3	8 3/4	4 1/2	10 1/4	5 1/2	4 7/8	29
G-317	1,000	600*	120/240	S-3	8 3/4	4 1/2	10 1/4	5 1/2	4 7/8	29

Dry Type - Distribution

INDOOR — SINGLE PHASE — AUTOFORMERS — 50/60 CYCLES D-1 MOUNTING.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Wiring Diagram	Mtg. Centers D	Mtg. Centers E	Dimensions A	Dimensions B	Dimensions C	Wt. Lbs.
G-318	100§	115/230	115/230	S-4	5 1/8	2 1/2	5 7/8	3 7/16	3	3
G-319	150§	115/230	115/230	S-4	5 3/4	2 1/2	6 1/2	3 3/16	3	4
G-320	250§	115/230	115/230	S-4	6 5/8	3 1/4	7 5/8	3 7/8	3 1/2	7
G-321	500§	115/230	115/230	S-4	9 1/4	3 7/8	10 3/8	4 11/16	4 9/32	15
G-322	750	120/240	120/240	S-4	7 7/8	3 1/4	8 7/8	3 7/8	3 1/2	9.5
G-323	1,000	120/240	120/240	S-4	8 5/8	3 7/8	9 3/4	4 11/16	4 9/32	12.5
G-324	1,500	120/240	120/240	S-4	9 7/8	3 7/8	11	4 11/16	4 9/32	17
G-325	2,000	120/240	120/240	S-4	8 3/8	4 1/2	9 3/4	5 1/2	4 7/8	23

Control Transformers - Machine Tool Type

MACHINE TOOL TYPE CONTROL TRANSFORMERS are double winding isolation type for 50/60 CPS applications. They feature rugged design, compactness, and low regulation at economical prices.

WIRING DIAGRAMS AND INSTRUCTIONS are furnished with each unit.

Screw terminals are provided to facilitate wiring connections.

APPLICATIONS

1. To provide 115 Volt Power or Lighting within machine tools or other equipment from 230/460 Volt power circuits.
2. To permit direct grounding lighting or control circuits independent of power distribution grounds for greater operator safety.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Wiring Diagram	Mtg. Centers D	Mtg. Centers E	Dimensions A	Dimensions B	Dimensions C	Wt. Lbs.
G-342	50	230/460	115	S-6	3 1/8	1 1/2	3 3/16	3 3/4	3 3/16	3
G-343	75	230/460	115	S-6	3 1/8	1 3/4	3 3/16	3 3/4	3 7/16	4
G-344	150	230/460	115	S-6	3 3/4	2 3/8	3 7/8	4 5/8	3 15/16	7.5
G-345	300	230/460	115	S-6	3 3/4	4	3 7/8	4 5/8	5 9/16	13.5
G-346	500	230/460	115	S-6	4 3/8	3 9/16	4 13/16	5 1/4	5	13.5
G-347	750	230/460	115	S-6	4 3/8	5	4 13/16	5 1/4	6 7/16	21
G-348	1,000	230/460	115	S-6	5 1/2	3 1/2	6 1/8	6 3/4	5 7/8	26.5

* 2 — 5% Taps FCBN (Full Capacity Below Normal Voltage)

Control

Line Voltage Regulators-Autoformers

50/60 CYCLES

Part No.	VA Output	Primary Voltage	Secondary Voltage	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
23V91	85‡‡	105/115/125/135/150/210/230/250	115	GMV*	2 1/4 x 2 1/4	3 1/2	3	4 5/8	4.5
23V77	150	95/105/115/125/135	115	BHH	3 9/16	2 5/8	4	2 1/4	2.2
23V92	150‡‡	105/115/125/135/150/210/230/250	115	GMV*	2 1/2 x 2 1/2	4	3 1/4	4 3/4	5.5
23V76	350	95/100/105/110/115/120/125/130	115	GMV*	2 3/4 x 2	4 1/4	3 5/8	3 1/4	4.2
23V93	350	85/90/95/100/105/110/115/120/125	115	GMV*	2 1/2 x 2 3/4	4	3 1/4	5	5
23V203	125	115	90/95/100/105/110/115/120/125/150/155/160	LHH	3 1/8 x 3	3 1/8	3 3/4	3 1/4	6
25V01	150	115	25/55/75/95/100/105/110/115/120/125/130	RC	2 11/16 x 2 11/16	4 1/8	3 7/16	3 7/16	5
25V02	250	115	25/55/75/95/100/105/110/115/120/125/130	RC	3 x 3	4 1/2	3 3/4	3 3/4	6.5
23V204	250	230	180/190/200/210/230/240/250/290/300/310	CHH	3 7/16 x 2 3/8	3 1/2	4 1/8	3 1/2	7.5
25V03	500	115	25/55/75/95/100/105/110/115/120/125/130	RC	3 9/16 x 3 9/16	5 1/2	4 1/2	4 1/2	11
23V205	500	230	180/190/200/210/230/240/250/290/300/310	LHH	4 1/16 x 3 1/2	4 1/8	4 7/8	4 1/2	13.5
25V04	1,000	115	25/55/75/95/100/105/110/115/120/125/130	RC	4 1/8 x 4 1/8	5 1/2	5 1/8	5 1/8	15.5
25V05	2,000	115	25/55/75/95/100/105/110/115/120/125/130	RC	4 7/8 x 4 7/8	7	5 3/4	5 3/4	22
27V22	2,000	115	25/35/45/55/65/75/85/95/105/115/125	TTV†	7 1/2 x 2 1/8 x 2 1/8	8 1/2	8	5 1/2	20

Line Voltage Regulators-Isolation

MTG TYPE-GMV WITH METER

Part No.	VA Output	Input Voltage 50/60 Cycle	Output Voltage	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
23V55	150	95/100/105/110/115/120/125/130	115	3 x 4 1/4	4 5/8	3 15/16	5 3/8	7
23V57	350	95/100/105/110/115/120/125/130	115	3 x 6 5/8	4 5/8	3 15/16	7 3/4	17

Varivolt Isolation Transformer

Part No.	Output Range on 117 Volt Line	VA Output (Resistive Load)	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
23V56	95-145	500*	7 1/4	5 7/8	8	25
23V75	95-145	150*	5 1/4	6	4 13/16	12

Line Voltage Regulators - Autoformer - With Meter

These Line Voltage Regulators provide the correct voltage to radios, TV Sets, air conditioners, refrigerators, deep freezes, automatic washers and many other appliances, even with variation in line voltage of 65-75-90-100-115-130 or 145 volts. They are also useful in altering the 115 volt line above and below the line voltage. An output receptacle and volt meter are internally connected to the 115 volt tap. All units are supplied with 6 ft. line cord and plug. All units have GMV Type Mounting with Meter.

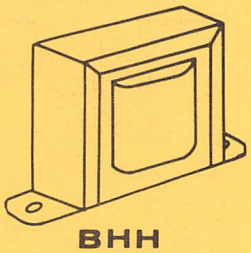
Part No.	VA Output	Input Voltage 50/60 Cycle	Output Voltage	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
23V11	150	65/75/90/100/115/130/145	115	3 x 4 5/16	5 1/8	3 7/8	5 3/8	6.4
23V12	350	65/75/90/100/115/130/145	115	3 x 5 1/16	5 1/2	3 7/8	6 1/8	10.5
23V13	500	65/75/90/100/115/130/145	115	3 x 5 13/16	5 1/2	3 7/8	6 7/8	15.
23V07	500	95/100/105/110/115/120/125/130	115	3 x 4 1/8	4 5/8	3 15/16	5 1/4	7.25
23V14	750	65/75/90/100/115/130/145	115	3 1/2 x 6 5/8	6 5/16	4 1/2	8 1/8	19
23V09	1,100	65/75/90/100/115/130/145	115	3 1/2 x 7 3/4	6 5/16	4 1/2	10	25
23V08	1,200	230	‡	3 x 9 1/8	4 5/8	3 15/16	10 1/4	21

‡‡ For 42–60 Cycle

‡ Output Voltage 160/170/180/190/200/210/220/230/240

* Complete with tap switch

† Hermetically sealed to MIL-T-27A



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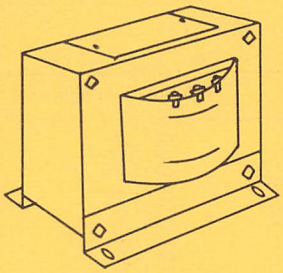
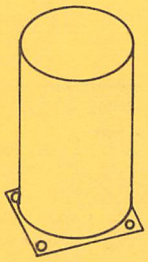


LHH
CHH



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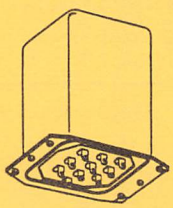
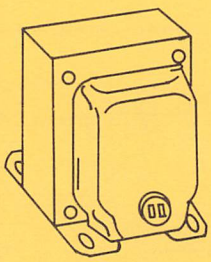
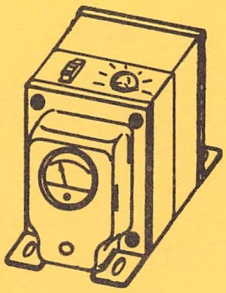


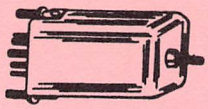
TTV



GMV



GMV
WITH METER

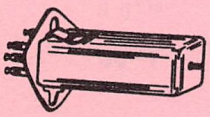


ST

PW

IF

IG



UM

SR

I. F. Transformers

SOUND AND VIDEO

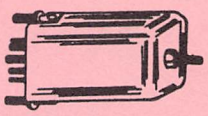
Part No.	Fig.	Schematic # No.	Use	Frequency M. C.	Mtg.	Dimensions H	W	D
17-3489	PW	44	Input-Interstage	4.5	Snap	2	3/4	3/4
17-1021	ST	44	Input-Interstage	4.5	1 1/8	2 1/2	1 1/8	1 1/8
17-3495	UM	44	Input-Interstage	4.5	Clip	2	3/4	3/4
16-3445	ST	44	Input-Interstage	4.5	15/16	2	7/8	7/8
17-1071	ST	42	Input-Interstage	4.5	15/16	1 1/2	7/8	7/8
17-3412	IF	102	Interstage Sound	4.5	5/16 Hole	1 1/4	1/2 Diameter	
17-1034	ST	30	Sound IF	4.5	15/16	1 1/2	7/8	7/8
17-3403	IF	3	Sound IF	4.5	5/16 Hole	1 1/2	1/2 Diameter	
17-1067	ST	34	Video IF (Bifilar)	21-25	27/32	1 3/8	3/4	3/4
17-1068	ST	34	Video IF (Bifilar)	25-29	27/32	1 3/8	3/4	3/4
17-1069	IF	84	Video IF (Bifilar)	21-30 Tr 20-23	5/16 Hole	2 1/2	3/4 Diameter	
17-1070	IF	84	Video IF (Bifilar)	22-32 Tr 24-29	5/16 Hole	2 1/2	3/4 Diameter	
17-1011	ST	44	Input Sound IF	21.25	15/16	2 1/4	7/8	7/8
17-1012	ST	44	Output Sound IF	21.25	15/16	2 1/4	7/8	7/8
20-1048	ST	42	Sound IF	21.25	15/16	1 11/16	7/8	7/8
17-1020	ST	53	Converter	21.8	15/16	2 1/4	7/8	7/8
17-3456	UM	44	Sound IF	21.9	Clip	2	3/4	3/4
17-1001	ST	36	1st Video IF	25.3 Tr 27.25	15/16	2 1/4	7/8	7/8
17-1002	ST	36	2nd Video IF	22.3 Tr 19.75	15/16	2 1/4	7/8	7/8
17-1003	IF	3	3rd Video IF	25.2	5/16 Hole	1 1/8	5/16 Diameter	
17-1004	IF	3	4th Video IF	23.4	5/16 Hole	1 1/8	5/16 Diameter	
17-1062	IF	13	2nd Video IF	25.7	5/16 Hole	1 1/2	3/8 Diameter	
17-1063	IF	13	3rd Video IF	23.4	5/16 Hole	1 1/2	3/8 Diameter	
17-1064	IF	13	4th Video IF	25.7	5/16 Hole	1 1/2	3/8 Diameter	
17-1066	IF	13	Video IF	21.5	5/16 Hole	1 1/2	3/8 Diameter	
17-1005	IG	17	1st Video IF	25.5 Tr 27.25	5/16 Hole	2 1/2	3/4 Diameter	
17-1006	IG	17	2nd Video IF	22 Tr 21.2	5/16 Hole	2 1/2	3/4 Diameter	
17-4507	SR	84	1st Video IF	22 Tr 19.75	15/16	2 3/8	1	1
17-4508	IF	4	5th Video IF	22.5	5/16 Hole	1 3/8	5/16 Diameter	
17-4512	ST	38	1st Video IF	22.25 Tr 27	15/16	2 5/6	7/8	7/8
17-4537	IF	13	Video IF Mixer	40-46 (Link)	5/16	1 1/4	3/4 Diameter	
17-4538	IF	4	Video IF	39-49	5/16	1 1/4	3/4 Diameter	
17-4500	IG	17	Converter	43.1 Tr 41.6	5/16 Hole	2 1/2	5/8 Diameter	
17-4501	IG	17	1st Video IF	42.5 Tr 39.75	5/16 Hole	2 9/16	5/8 Diameter	
17-4502	IG	17	2nd Video IF	45.75 Tr 47.25	5/16 Hole	2 9/16	5/8 Diameter	
17-4503	ST	36	3rd Video IF	43 Tr 39.75	15/16	2 1/4	7/8	7/8
17-4504	ST	36	4th Video IF	44.2 Tr 47.25	15/16	2 1/4	7/8	7/8
17-4534	IF	3	1st Video IF	43	5/16 Hole	1 3/8	1/2 Diameter	
17-4535	IF	84	2nd Video IF	43.25 Tr 41.25	5/16 Hole	2	1/2 Diameter	
17-4536	IF	84	3rd Video IF	45.4 Tr 47.25	5/16 Hole	2	1/2 Diameter	
17-4521	ST	38	1st Video IF	45.75 Tr 47.25	15/16	2 1/4	7/8	7/8
17-4522	IF	13	2nd Video IF	43	5/16 Hole	1 3/8	1/2 Diameter	
17-4523	IF	13	3rd Video IF	45.5	5/16 Hole	1 1/4	1/2 Diameter	
17-4524	IF	13	4th Video IF	44.5	5/16 Hole	1 1/4	1/2 Diameter	
17-5000	UM	85	Converter	44	Clip	2	3/4	3/4
17-5001	UM	85	1st Video IF	44	Clip	2	3/4	3/4
17-5002	UM	87	2nd Video IF	42.5 Tr 41.25	Clip	2	3/4	3/4
17-5003	UM	87	3rd Video IF	45.5 Tr 47.25	Clip	2	3/4	3/4
17-5004	UM	34	4th Video IF	44	Clip	2	3/4	3/4
17-5010	PW	85	Converter	44	Snap	2	3/4	3/4
17-5011	PW	85	1st Video IF	44	Snap	2	3/4	3/4
17-5012	PW	87	2nd Video IF	42.5 Tr 41.25	Snap	2	3/4	3/4
17-5013	PW	87	3rd Video IF	45.5 Tr 47.25	Snap	2	3/4	3/4
17-5014	PW	34	4th Video IF	44	Sanp	2	3/4	3/4
17-4518	ST	88	1st Video IF Grid	44 Tr 41.25	1 1/8	2 1/4	1 1/8	1 1 8
17-4519	ST	89	1st Video IF Plate	44 Tr 39.75	15/16	2 1/4	7/8	7/8
17-4520	ST	90	2nd Video IF Grid	44 Tr 47.25	15/16	2 1/4	7/8	7 8
17-4505	ST	91	Converter	40	15/16	2 1/4	7/8	7 8
17-4531	ST	39	1st Video IF Grid	44 Tr 39.25	15/16	2	7/8	7/8
17-4532	ST	89	1st Video IF Plate	44 Tr 41.25	15/16	2 1/4	7/8	7 8
17-4533	ST	90	2nd Video IF Grid	44 Tr 47.25	15/16	2 1/4	7/8	7 8
17-4509	ST	89	2nd Video IF	45	15/16	3	7/8	7 8
17-4511	ST	92	4th Video IF	43.7 (Includes 1N64 Crystal)	1 1/8	2 1/4	1 1/8	1 1 8
17-4514	ST	92	5th Video IF	43.7 (Includes 1N60 Crystal)	1 1/8	2 1/4	1 1/8	1 1 8

Schematics listed at the end of the Pink pages

Television Replacements

Ratio Detectors–Discriminators–Quadratures

Part No.	Fig.	Schematic # No.	Use	Frequency M.C.	Mtg.	Dimensions H	W	D
17-1033	ST	48	Ratio Detector	4.5	1 1/8	2	1 1/8	1 1/8
17-3493	ST	48	Ratio Detector	4.5	1 3/8	2 1/2	1 1/8	1 1/8
17-3497	UM	48	Ratio Detector	4.5	Clip	2	3/4	3/4
17-3477	ST	55	Ratio Detector	4.5	15/16	2 1/2	7/8	7/8
17-1023	ST	49	Discriminator	4.5	1 1/8	3	1 1/8	1 1/8
17-3496	UM	93	Discriminator	4.5	Clip	2	3/4	3/4
20-1007	IF	3	Quadrature	4.5	5/16 Hole	1 1/2	1/2 Diameter	
17-1031	ST	31	Quadrature	4.5	15/16	1 1/2	7/8	7/8
20-1005	IF	5	Quadrature	4.5	5/16 Hole	1 1/2	1/2 Diameter	
17-3454	UM	113	Discriminator	4.5	Clip	2	3/4	3/4
17-3455	UM	114	Discriminator	4.5	Clip	2	3/4	3/4
17-3459	UM	115	Ratio Detector	4.5	Clip	2	3/4	3/4
17-1043	ST	55	Ratio Detector	21.25	1 1/8	2 1/2	1 1/8	1 1/8
17-1045	UM	55	Ratio Detector	21.25	Clip	2	3/4	3/4
17-1035	ST	94	Discriminator	21.25	15/16	2 1/2	7/8	7/8
17-1013	ST	51	Discriminator	21.25	1 1/8	1 3/4	1 1/8	1 1/8
17-1047	UM	93	Discriminator	21.25	Clip	2	3/4	3/4
17-3457	UM	93	Discriminator	21.9	Clip	2	3/4	3/4



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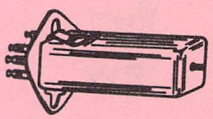


UM

3/4" I.F.'S-Ratio Detectors–Discriminators

FOR PRINTED CIRCUIT

Part No.	Fig.	Schematic # No.	Use	Frequency M.C.	Mtg.	Dimensions H	W	D	Replacement For
16-6756	PW	44	Input-Output	262KC	Snap	2	3/4	3/4	
16-6780	PW	44	Input-Output	456KC	Snap	2	3/4	3/4	
17-3453	PW	55	Discriminator	4.5MC	Snap	2	3/4	3/4	Philco
17-3489	PW	44	Input-Interstage	4.5MC	Snap	2	3/4	3/4	
17-3490	PW	93	Discriminator	4.5MC	Snap	2	3/4	3/4	
17-3478	PW	55	Ratio Detector	4.5MC	Snap	2 1/2	7/8	7/8	RCA 100364
17-3476	PW	23	Ratio Detector	4.5MC	Snap	2	3/4	3/4	GE RTD-026
17-3474	PW	55	Ratio Detector	4.5MC	Snap	2	3/4	3/4	GE RTD-020
17-3475	PW	55	Ratio Detector	4.5MC	Snap	2	3/4	3/4	GE RTD-025
17-3458	PW	23	Ratio Detector	4.5MC	Snap	2	3/4	3/4	GE RTD-030
17-3499	PW	48	Ratio Detector	4.5MC	Snap	2	3/4	3/4	
16-3490	PW	44	Input-Inter-Output	10.7MC	Snap	2	3/4	3/4	
17-3491	PW	93	Discriminator	10.7MC	Snap	2	3/4	3/4	
17-3492	PW	55	Ratio Detector	10.7MC	Snap	2	3/4	3/4	
17-5010	PW	85	Converter	44 MC	Snap	2	3/4	3/4	
17-5011	PW	85	1st Video IF	44 MC	Snap	2	3/4	3/4	
17-5012	PW	87	2nd Video IF	42.5 MC Tr 41.25	Snap	2	3/4	3/4	
17-5013	PW	87	3rd Video IF	45.5 MC Tr 47.25	Snap	2	3/4	3/4	
17-5014	PW	34	4th Video IF	44 MC	Snap	2	3/4	3/4	

IF

PW

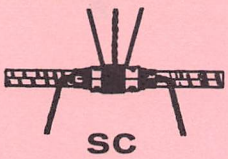
Antenna Coupling Transformers

USED TO MATCH RECEIVER TO TRANSMISSION LINE

Part No.	Fig.	Schematic # No.	Use	Mtg.	Dimensions H	W	D
15-1073	CB	7	52 to 300 Ohm or 300 to 52 Ohm Impedance Match	Single Hole Bracket	1 3/8	3/4	3/4
15-1074	CB	7	72 to 300 Ohm or 300 to 72 Ohm Impedance Match	Single Hole Bracket	1 3/8	3/4	3/4
15-1085	CB	7	450 to 300 Ohm or 300 to 450 Ohm Impedance Match	Single Hole Bracket	1 3/8	3/4	3/4

CB

Schematics listed at the end of the Pink pages



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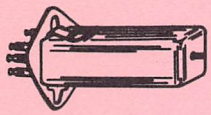
MG



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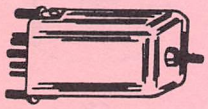


ST

SW

IF

15-1082 ALSO CALLED LADDER, ELEVATOR AND BALUN WHILE THE 15-1083 AND 15-1084 HAVE BEEN CALLED THE SPIDER COIL

Antenna Input

Part No.	Fig.	Schematic # No.	Use	Dimensions H	Dimensions Diameter
15-1082	MG	7	RCA 73578, 73591, 78396	1 1/2	5/16 Hexagon
15-1083	SC	8	GE RLA-036/037/040/041	1	3/16 Diameter
15-1084	SC	10	GE RLA-042	1	3/16 Diameter
15-1089	SC	10	GE RLA-043/045	1	3/16 Diameter
15-1090	SC	10	GE RLA-047	1	3/16 Diameter
15-1091	SC	116	GE RLA-046, WEST. V19024-7/-9	1	1/2 Diameter
15-1092	SC	10	GE RLA-050	1	3/16 Diameter
15-1093	SC	10	GE RLA-053	1	3/16 Diameter

Permeability Tuned Sound and Cathode Traps

Part No.	Fig.	Schematic # No.	Use	Frequency M.C.	Shunt	Mtg.	Dimensions H	Dimensions W	Dimensions D
17-6016	IF	99	Trap Primary	3.58	27K 33MMF	5/16 Hole	1 9/16	5/16 Diameter	
17-6017	IF	5	Trap Secondary	3.58	10K	5/16 Hole	1 9/16	5/16 Diameter	
17-1026	UM	31	Sound Trap	4.5	56MMF	Clip	2	3/4	3/4
20-1004	IF	5	Sound Trap	4.5	47MMF	5/16 Hole	1 1/2	1/2 Diameter	
20-1005	IF	5	Sound Trap	4.5	10MMF	5/16 Hole	1 1/2	1/2 Diameter	
20-1020	IF	117	Sound Trap	4.5	—	7/16	2 1/4	3/4 Diameter	
17-1025	ST	40	Sound Take Off	4.5 Tapped	—	15/16	1 1/2	7/8	7/8
17-1031	ST	31	Sound Take Off	4.5	—	15/16	1 1/2	7/8	7/8
17-3400	IF	5	Sound Take Off	4.5	—	5/16 Hole	1 1/2	1/2 Diameter	
17-3401	IF	5	Sound Take Off	4.5	—	7/16 Hole	1 3/8	1/2 Diameter	
17-3402	IF	4	Sound Take Off	4.5	—	5/16 Hole	1 1/2	7/16 Diameter	
20-1021	IF	21	Cathode Trap	27.25	47MMF	7/16 Hole	1 3/8	1/2 Diameter	
20-1006	IF	5	Trap	21.25	47MMF	5/16 Hole	1 1/2	1/2 Diameter	
20-1044	IF	5	High Q Trap	40-46	30MMF	5/16 Hole	1 1/4	3/4 Diameter	
20-1045	IF	21	Cathode Trap	41.8	22K 36MMF	5/16 Hole	1 1/4	1/2 Diameter	
20-1049	IF	3	Trap	47.25	None	5/16 Hole	1 1/4	5/16 Diameter	

RF Filament Chokes Single Layer Wound

Part No.	Fig.	Schematic # No.	Inductance U.H.	D.C. Resistance Ohms	Current M.A.	Mtg.	H	Diameter
19-1007	SW	1	.7	.1	300	Leads	7/8	3/8
19-1000	SW	1	1	.207	300	Leads	3/4	5/16
19-1001	SW	1	1.5	.252	300	Leads	3/4	5/16
19-1002	SW	1	2.4	.331	300	Leads	3/4	5/16
19-1003	SW	1	3.9	.4	300	Leads	3/4	5/16
19-1008	SW	1	5.5	.69	300	Leads	3/4	3/8
19-1004	SW	1	6.2	.525	300	Leads	3/4	5/16
19-1009	SW	1	8.2	1.12	300	Leads	3/4	3/8
19-1005	SW	1	10	.697	300	Leads	3/4	5/16
19-1006	SW	1	15	.2	300	Leads	7/8	7/32

Chroma Coils

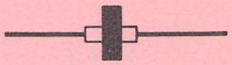
Part No.	Fig.	Schematic # No.	Use	Frequency M.C.	Mtg.	Dimensions H	Dimensions W	Dimensions D
17-6010	ST	95	Band Pass Primary	2-4	15/16	2 1/4	7/8	7/8
17-6011	IF	3	Band Pass Secondary	2-4	5/16 Hole	1 1/2	5/16 Diameter	
17-6012	ST	96	Burst Amplifier	3.58	15/16	2 1/4	7/8	7/8
17-6013	ST	97	Output	3.58	15/16	1 1/2	7/8	7/8
17-6014	ST	86	Quadrature Coil	3.58	1 1/8	2 1/4	1 1/8	1 1/8
17-6015	ST	98	Reactance Coil	3.58	15/16	2 1/4	7/8	7/8

Schematics listed at the end of the Pink pages

Video Peaking Coils

PROVIDED WITH TINNED WIRE LEADS FOR EASE OF CONNECTIONS

Part No.	Fig.	Schematic No.	Inductance U.H.	Shunt Resistance	Dimensions	
					Form Length	Coil Dia.
19-3001	RT	1	.8	None	3/4	5/16
19-2864	SM	1	10.9	None	3/4	9/16
19-1006	SW	1	15	None	7/8	7/32
19-3036	RT	1	36	None	3/4	7/16
19-4036	RT	6	36	10 Meg	1/2	5/16
19-3060	RT	1	60	None	3/8	3/16
19-4060	RT	6	60	22 K	1/2	5/16
19-4073	RT	6	73	10 Meg	1/2	3/8
19-3075	RT	1	75	None	3/4	5/16
19-3093	RT	1	93	None	3/4	7/16
19-4093	RT	6	93	10 Meg	1/2	7/16
19-3100	RT	1	100	None	3/4	7/16
19-4121	RT	6	120	8.2 K	1/2	7/16
19-4120	RT	6	120	12 K	1/2	7/16
19-4122	RT	6	120	22 K	1/2	7/16
19-3125	RT	1	125	None	3/4	7/16
19-4125	RT	6	125	22 K	1/2	7/16
19-3160	RT	1	160	None	3/4	7/16
19-4160	RT	6	160	22 K	1/2	7/16
19-3180	RT	1	180	None	3/4	7/16
19-4180	RT	6	180	39 K	1/2	7/16
19-4201	RT	1	200	None	1/2	7/16
19-4200	RT	6	200	10 K	1/2	7/16
19-3250	RT	1	250	None	3/4	7/16
19-4250	RT	6	250	22 K	1/2	7/16
19-3275	RT	1	275	None	3/8	3/16
19-4251	RT	6	250	10 Meg	1/2	7/16
19-3300	RT	1	300	None	3/4	7/16
19-3330	RT	1	330	None	3/8	3/16
19-3375	RT	1	375	None	3/8	3/16
19-4400	RT	1	400	None	1/2	7/16
19-4412	RT	6	412	8.2 K	5/8	7/16
19-3500	RT	1	500	None	3/4	1/2
19-4500	RT	6	500	10 Meg	1/2	7/16
19-3600	RT	1	600	None	3/8	3/16
19-3660	RT	1	660	None	3/4	1/2
19-4840	RT	6	840	3.3 K	1/2	1/2
19-4950	RT	1	950	None	1/2	1/2
19-5100	RT	6	1000	10 K	1/2	1/2
19-5101	RT	1	1900	None	7/8	9/16
19-5102	RT	1	6700	None	7/8	11/16



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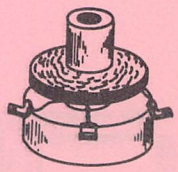


SM

Adjustable Video Peaking Coils

THESE MINIATURE VARIABLE INDUCTANCE COILS PERMIT EXACT ADJUSTMENT OF VIDEO AMPLIFIER STAGES

Part No.	Fig.	Schematic No.	Min. Inductance U.H.	Max. Inductance U.H.	Mtg.	Dimensions	
						H.	D.
19-1920	MF	3	65	115	External Leads	1	1/2
19-1921	MF	3	115	195	External Leads	1	1/2
19-1922	MF	3	195	325	External Leads	1	1/2
19-1923	MF	3	325	500	External Leads	1	1/2

MF

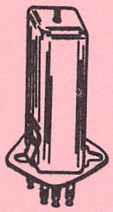
Tuneable Chokes

Part No.	Fig.	Schematic No.	Frequency M.C.	Shunt	Mtg.	Dimensions	
						H.	W. x D.
19-1020	IF	3	21-25	10 MMF Circuit Cap	5/16 hole	1 3/8	1/2 Dia.
19-1021	IF	3	21-25	10 MMF Circuit Cap	7/16 hole	1 3/8	1/2 Dia.
19-1023	IF	3	25-29	10 MMF Circuit Cap	7/16 hole	1 1/2	1/2 Dia.

Schematics listed in back of catalog.

IF

3/4" I.F.'S-Permeability Tuned



UM

Tuned top and bottom by means of adjustable iron cores.
Construction using silvered mica condensers and one-piece molded plastic bases.
Supplied with separate mounting centers.
Adequate frequency range is provided in each unit for all normal operation.

Part No.	Fig.	Schematic # No.	Use	Frequency	Selectivity 2X	Selectivity 10X	Mtg.	Dimensions H	Dimensions W	Dimensions D
16-6752	UM	44	Input	262 KC	12	35	3/4 to 1 1/2	2	3/4	3/4
16-6754	UM	46	Output	262 KC	18	45	3/4 to 1 1/2	2	3/4	3/4
16-6756	PW	44	Input or Output	262 KC	12	35	Snap	1 3/4	3/4	3/4
16-6757	PW	46	Output with Diode Filter	262 KC	18	45	Snap	2	3/4	3/4
16-6758	UM	44	Input or Output	456 KC	14	38	3/4 to 1 1/2	2	3/4	3/4
16-6764	UM	108	As Combined Input and Output	455 KC	15	40	3/4 to 1 1/2	2	3/4	3/4
16-6767	GE	44	Input or Output	455 KC	14	38	Bracket	1 7/8	3/4	3/4
16-6765	UM	44	Input 12 V B+ Supply	455 KC	14	37	3/4 to 1 1/2	2	3/4	3/4
16-6766	UM	109	Output with Diode Filter	455 KC	16	41	3/4 to 1 1/2	2	3/4	3/4
16-6770	UM	46	Output	456 KC	18	42	3/4 to 1 1/2	2	3/4	3/4
16-6780	PW	44	Input or Output	456 KC	14	38	Snap	2	3/4	3/4
16-6781	PW	46	Output with Diode Filter	455 KC	18	42	Snap	2	3/4	3/4
16-6784	PW	44	Battery Input	455 KC	19	40	Snap	2	3/4	3/4
16-6785	PW	44	Battery Output	455 KC	21	42	Snap	2	3/4	3/4
16-6786	PW	44	AC-DC Input	455 KC	16	39	Snap	2	3/4	3/4
16-6787	PW	44	AC-DC Output	455 KC	21	42	Snap	2	3/4	3/4
16-6702	PW	108	Admiral 72C175-2	455 KC	14	38	Snap	2	3/4	3/4

GE

Auto Radio - 3/4" I.F.'S

EXACT REPLACEMENTS

TUNED FROM EITHER TOP OR BOTTOM BY MEANS OF HEX CORE ADJUSTMENTS

Part No.	Fig.	Schematic # No.	Frequency	Replaces
16-6703	PW	111	262 KC	Cadillac, Chevrolet, Buick 1221253, 1221255
16-6720	PW	111	262 KC	Ford (Bendix) 2090237-1
16-6721	PW	111	262 KC	Ford 2090237-2, Lincoln 2090493-1
16-6722	PW	111	262 KC	Ford (Bendix) 2090237-3
16-6723	PW	111	262 KC	Mercury (Bendix) 2090237-4
16-6724	PW	112	262 KC	Ford 2090239-1, Lincoln 2090492-1
16-6725	PW	112	262 KC	Ford (Bendix) 2090239-2
16-6726	PW	112	262 KC	Mercury, Chrysler 2090239-3
16-6727	PW	109	262 KC	Ford (Bendix) 2090907-1
16-6728	PW	109	262 KC	Ford (Bendix) 2090907-2
16-6729	PW	109	262 KC	Ford (Bendix) 2090907-3
16-6730	PW	109	262 KC	Ford (Bendix) 2090907-5
16-6731	PW	109	262 KC	Ford (Bendix) 2090907-7/-14
16-6732	PW	111	262 KC	Ford (Bendix) 2090908-2
16-6733	PW	111	262 KC	Ford (Bendix) 2090908-3
16-6734	PW	111	262 KC	Ford (Bendix) 2090908-4/-9
16-6735	PW	111	262 KC	Ford (Bendix) 2090908-5/-12

PW

Schematics listed at the end of the Pink pages

IF,s

I.F.'S-Permeability Tuned

These sub-miniature I.F.'s have the same high performance characteristics as the larger I.F.'s widely used in A. C. D. C. and personalized receivers. Adequate frequency range is provided in each unit for all normal operation.

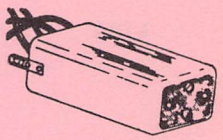
Part No.	Fig.	Schematic# No.	Use	Peak Factory Setting	Selectivity 2X	Selectivity 10X	Mtg.	Dimensions H	Dimensions W	Dimensions D
16-6800	KT	44	Input-Interstage	456KC	16	34	1/2	1 1/2	1/2	1/2
16-6801	KT	44	Output	456KC	18	38	1/2	1 1/2	1/2	1/2

KT

I. F. Transformers Air Core "Plastic"

Designed for superior performance especially when space is at a premium. Simple rigid construction on a one-piece molded plastic form; double tuned trimmed base. Leads extend four inches from can and are EIA color coded. Adequate frequency range is provided in each unit for all normal operation.

Part No.	Fig.	Schematic# No.	Use	Peak Factory Setting	Selectivity 2X	Selectivity 10X	Mtg.	Dimensions H	Dimensions W	Dimensions D
16-6649	MT	45	Input	175KC	6.0	17.5	1 1/4	2 1/2	1 1/4	1 1/4
16-6650	MT	54	Interstage	175KC	5.7	15.0	1 1/4	2 1/2	1 1/4	1 1/4
16-6651	MT	45	Output	175KC	11.5	29.5	1 1/4	2 1/2	1 1/4	1 1/4
16-6652	MT	45	Input	262KC	9.5	24.7	1 1/4	2 1/2	1 1/4	1 1/4
16-6653	MT	56	Interstage	262KC	10.4	27.6	1 1/4	2 1/2	1 1/4	1 1/4
16-6654	MT	45	Output	262KC	20.5	57.1	1 1/4	2 1/2	1 1/4	1 1/4
16-6655	MT	45	Input	370KC	8.4	24.4	1 1/4	2 1/2	1 1/4	1 1/4
16-6656	MT	56	Interstage	370KC	11.3	30.0	1 1/4	2 1/2	1 1/4	1 1/4
16-6657	MT	45	Output	370KC	18.8	46.6	1 1/4	2 1/2	1 1/4	1 1/4
16-6658	MT	45	Input	456KC	18.8	46.6	1 1/4	2 1/2	1 1/4	1 1/4
16-6659	MT	56	Interstage	456KC	12.5	33.0	1 1/4	2 1/2	1 1/4	1 1/4
16-6660	MT	45	Output	456KC	17.5	50.5	1 1/4	2 1/2	1 1/4	1 1/4
16-6666	MT	45	Input	456KC	14.1	37.5	1 1/8	2 1/2	1 1/8	1 1/8
16-6667	MT	45	Output	456KC	18.0	49.5	1 1/8	2 1/2	1 1/8	1 1/8
	Same as series above, except coils have HI Q Powdered Iron Cores.									
16-6662	MT	45	Input	456KC	11.2	30.0	1 1/4	2 1/2	1 1/4	1 1/4
16-6663	MT	45	Output	456KC	11.2	30.0	1 1/4	2 1/2	1 1/4	1 1/4



MT

"Alignaire" I.F.

Unexcelled in stability, unaffected by humidity changes: Non-microphonic and dust-proof. HI-Q Powdered Iron Cores provide utmost selectivity and sensitivity. All types are doubled-tuned. Adequate frequency range is provided in each unit for all normal operation.

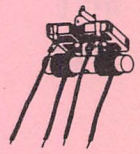
Part No.	Fig.	Schematic# No.	Use	Peak Factory Setting	Selectivity 2X	Selectivity 10X	Mtg.	Dimensions H	Dimensions W	Dimensions D
16-6643	WT	45	Input	456KC	7.0	16.0	2	4 3/4	2	2
16-6123	WT	45	Interstage	456KC	7.0	18.0	2	4 3/4	2	2
16-6645	WT	45	Output	456KC	9.0	25.6	2	4 3/4	2	2
16-6139	WT	56	Output CT	456KC	9.0	23.2	2	4 3/4	2	2

WT

Cartwheel I.F.

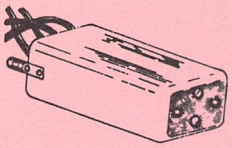
Complete with dual trimmers on one-piece molded plastic base. Applicable in many types of compact A.C.D.C. or midget receivers. Leads extend 4" from coil. Adequate frequency range is provided in each unit for all normal operation.

Part No.	Fig.	Schematic# No.	Use	Peak Factory Setting	Selectivity 2X	Selectivity 10X	Mtg.	Dimensions H	Dimensions W	Dimensions D
16-6661	CW	22	Input, Interstage or Output	456KC	18	45	Single Screw	1 1/4	1 3/8	1

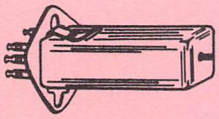


CW

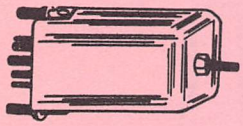
Schematics listed at the end of the Pink pages



MT



UM



ST

SV

PW

"Standard" General Replacement

Accepted as standard for general replacement purposes. Gain characteristics have been designed to correspond closely with average values found in the majority of commercial receivers. Double tuned with ceramic base, mica-dielectric trimmers. Leads extend 4" from aluminum cans and are Retma color coded. Adequate frequency range is provided in each unit for all normal operation.

Part No.	Fig.	Schematic No.	Use	Peak Factory Setting	Selectivity		Mtg.	Dimensions	
					2X	10X		H.	W. x D.
16-5700	MT	45	Input	175 KC	6.5	17.7	1 3/8	3	1 3/8 x 1 3/8
16-5702	MT	45	Output	175 KC	12.2	32.0	1 3/8	3	1 3/8 x 1 3/8
16-3731	MT	56	Output CT	175 KC	9.8	23.2	1 3/8	3	1 3/8 x 1 3/8
16-5704	MT	45	Input	262 KC	6.8	18.4	1 3/8	3	1 3/8 x 1 3/8
16-5706	MT	45	Output	262 KC	17.9	46.2	1 3/8	3	1 3/8 x 1 3/8
★16-5712	MT	45	Inpjut	456 KC	11.1	27.7	1 3/8	3	1 3/8 x 1 3/8
16-6133	MT	56	Interstage	456 KC	14.5	36.5	1 3/8	3	1 3/8 x 1 3/8
★16-5714	MT	45	Output	456 KC	12.3	37.2	1 3/8	3	1 3/8 x 1 3/8
16-3736	MT	56	Output CT	456 KC	23.2	60.0	1 3/8	3	1 3/8 x 1 3/8

High Q Iron Core "Standard" General Replacement

Part No.	Fig.	Schematic No.	Use	Peak Factory Setting	Selectivity		Mtg.	Dimensions	
					2X	10X		H.	W. x D.
16-5728	MT	45	Input	175 KC	12.5	30.0	1 3/8	3 1/2	1 3/8 x 1 3/8
16-5730	MT	45	Output	175 KC	16.5	44.0	1 3/8	3 1/2	1 3/8 x 1 3/8
16-6668	MT	45	(Battery Input)	456 KC	22.5	54.3	3/4	2	3/4 x 3/4
16-6669	MT	45	(Battery Output)	456 KC	22.5	58.0	3/4	2	3/4 x 3/4
★16-6678	MT	45	ACDC Input or Output	456 KC	16.6	41.1	3/4	2	3/4 x 3/4
16-5740	MT	45	Input	456 KC	8.4	20.0	1 3/8	3 1/2	1 3/8 x 1 3/8
16-6131	MT	45	Interstage	456 KC	6.9	13.3	1 3/8	3 1/2	1 3/8 x 1 3/8
16-5742	MT	45	Output	456 KC	13.8	38.0	1 3/8	3 1/2	1 3/8 x 1 3/8
16-5782	MT	45	Input	456 KC			1 3/8	3 1/2	1 3/8 x 1 3/8
16-5784	MT	45	Output	456 KC			1 3/8	3 1/2	1 3/8 x 1 3/8
16-8091	MT	45	Input or Interstage	1500 KC	8.5	35	1 3/8	3 1/2	1 3/8 x 1 3/8
16-8099	MT	45	Output	1500 KC	10	50	1 3/8	3 1/2	1 3/8 x 1 3/8

10.7 MC. I.F.'S-Ratio Detectors — Discriminators

Permeability tuned. Close tolerance. High stability shunt capacitors. Four 16-6665's with a 17-3484 or 17-3487 makes an excellent F.M. I.F. channel for receivers or converters. For a more economical receiver or converter, use two 16-3487's with one 17-3487 or 17-3488.

Part No.	Fig.	Schematic No.	Use	Mtg.	Dimensions	
					H.	W. x D.
★16-3487	UM	44	Input, Interstage or Output	Clip	2	3/4 x 3/4
16-3490	PW	44	Input, Interstage or Output	Snap	2	3/4 x 3/4
★16-3471	ST	44	Input, Interstage or Output	1 5/8	2 1/4	7/8 x 7/8
16-3472	ST	44	Interstage	1 5/8	2 1/2	7/8 x 7/8
★16-6665	SV	44	Input, Interstage or Output (350 KC Band wid th)	1 1/2	1 3/4	7/8 x 1 1/2
★17-3488	ST	48	Ratio Detector	1 1/8	2 1/8	1 1/8 x 1 1/8
★17-3498	UM	55	Ratio Detector	Clip	2	3/4 x 3/4
17-3492	PW	55	Ratio Detector	Snap	2	3/4 x 3/4
★17-3487	ST	48	Ratio Detector- -400 KC Pk. to Pk.	1 3/8	2 1/2	1 3/8 x 1 3/8
17-3491	PW	93	Discriminator	Snap	2	3/4 x 3/4
★17-3484	SV	77	Discriminator 400 KC Pk. to Pk.	1 1/2	1 3/4	7/8 x 1 1/2
17-3494	UM	93	Discriminator	Clip	2	3/4 x 3/4

★May be used for TV replacement.
Schematics listed in back of catalog.

IF,s

Composite I.F. Transformer

Contains a 456 KC A.M. and a 10.7 F.M. I.F. Each circuit tuned by separate powdered iron cores. Terminals provide for various external circuit arrangements. Two of these units with the 17-3487 make an A.M. F.M. I.F. unit with a minimum number of tubes.

Part No.	Fig.	Schematic # No.	Use	Mtg.	Dimensions H	W	D
16-6675	DT	50	Input, Interstage, or Output	1 5/16	2 1/2	1 3/8	1 3/8

DT

Tweet Filter Output I.F. Transformer

Built-in Tweet Filter. Designed for replacement use in late model receivers that have a Tweet Filter enclosed in the I.F. output shield. Leads extend four inches from can and are EIA color coded.

Part No.	Fig.	Schematic # No.	Frequency	Selectivity 2X	10X	Mtg.	Dimensions H	W	D
16-6679	MT	47	262 KC	12	34	1 1/4	2 1/2	1 1/4	1 1/4
16-6670	MT	47	456 KC	17.5	50.5	1 1/4	2 1/2	1 1/4	1 1/4

MT

1500 KC. Minature I.F.'S_Permeability Tuned

These 3/4 inch I.F.'s are commonly used in double conversion receivers. Adequate frequency range is provided in each unit for all normal operations. Will tune up to 1,600 KC.

Part No.	Fig.	Schematic # No.	Use	Peak Factory Setting	Selectivity 2X	10X	Mtg.	Dimensions H	W	D
16-6760	ST	44	Input-Interstage	1,500 KC	17	37	13/16	2	3/4	3/4
16-6761	ST	44	Output	1,500 KC	19	53	13/16	2	3/4	3/4

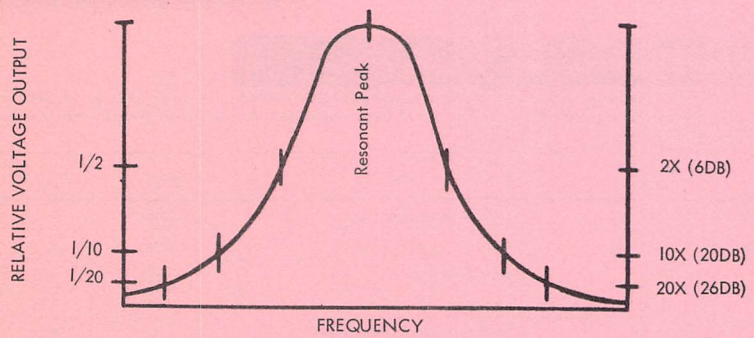
456 KC. Band Expanding I.F. Transformers

Designed to provide variable selectivity by means of a tap switch — no cams or levers. Extremely sharp resonance curve provided in first position. Other positions provide good flat-top characteristics for high fidelity reproduction of local stations. Powdered iron cores, highest quality components used throughout.

Part No.	Fig.	Schematic # No.	Use	Mtg.	Dimensions H	W	D
17-7400	TC	71	Input	1 3/8	3 1/2	1 3/8	1 3/8
17-7412	TC	71	Output	1 3/8	3 1/2	1 3/8	1 3/8
17-7510	ST	76	Input and Interstage	1 3/8	2 3/4	1 3/8	1 3/8
17-7514	ST	44	Output	1 3/8	2 3/4	1 3/8	1 3/8

ST

I.F. Selectivity Rating



As shown in the above response curve 2X, 10X and 20X refer to a point on the curve. The 2X refers to 1/2 (6 DB) of the voltage across the coil at the resonant peak. Likewise, the 10X refers to 1/10 (20 DB) of this peak voltage and 20X refers to 1/20 (26 DB) of this peak voltage. The ratings given for each coil in the catalog, under the headings of 2X, 10X or 20X, are the bandwidths in K.C. of the coil at the respective points.

EXAMPLE:

SELECTIVITY 2X	10X	20X
7.0	16.0	22.0

This shows that the bandwidth at 2X (1/2 or 6 DB of the response peak) is 7 K.C. — at 10X (1/10 or 20 DB of the resonant peak) the bandwidth is 16 K.C. — at 20X (1/20 or 26 DB of the resonant peak) the bandwidth is 20 K.C.

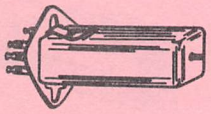
TC

Schematics listed at the end of the Pink pages

IF

PC

PT



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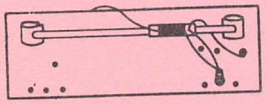

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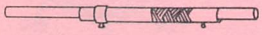
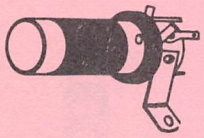
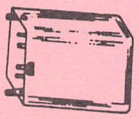


FR



NT



AE

WO

COILS

Antenna-RF-Oscillator

Antenna – RF and Oscillator Coils

"ADJUSTABLE" INDUCTANCE COILS
(BROADCAST BAND)

Designed for replacement in practically any receiver, eliminating necessity for "exact" replacement. Will accurately track with other coils in the receiver. Exact inductance of the old coil is easily matched by simple screw-driver adjustment. 14-1028 and 14-7560 may be used in either cut-plate or padder circuits for I.F. Frequencies between 175 and 520 K.C.

Part No.	Fig.	Schematic # No.	Use	Mtg.	Dimensions H	W	D
14-1026	PC	16	Antenna Coil	3/16 Hole	1 3/4	1 1/8	1 1/8
14-1027	PC	16	RF Coil	3/16 Hole	1 3/4	1 1/8	1 1/8
14-1028	PC	13	Oscillator Coil	3/16 Hole	1 3/4	1 1/8	1 1/8
14-1075	IF	16	Antenna Coil	5/16 Hole	1 5/8	5/8 Diameter	
14-1076	IF	83	RF Coil	5/16 Hole	1 5/8	5/8 Diameter	
14-1077	IF	12	Oscillator Coil	5/16 Hole	1 1/4	5/8 Diameter	
14-1056	PT	16	Antenna Coil	1/4 Hole	1 7/8	3/4 Diameter	
14-1057	PT	16	RF Coil	1/4 Hole	1 7/8	3/4 Diameter	
14-1058	PT	13	Oscillator Coil	1/4 Hole	1 7/8	3/4 Diameter	
14-7413	AE	35	Antenna Coil	1 3/4	2 1/2	1 3/4	1 3/4
14-7558	AE	35	RF Coil	1 3/4	2 1/2	1 3/4	1 3/4
14-7560	AE	34	Oscillator Coil	1 3/4	2 1/2	1 3/4	1 3/4
14-1080	ST	30	Antenna Coil	27/32	1 3/8	3/4	3/4
14-1081	ST	14	RF Coil	27/32	1 3/8	3/4	3/4
14-1082	ST	30	Oscillator Coil	27/32	1 3/8	3/4	3/4
14-1410	UM	85	Antenna Coil	Clip	2	3/4	3/4
14-1411	UM	85	RF Coil	Clip	2	3/4	3/4
14-1412	UM	30	Oscillator Coil	Clip	2	3/4	3/4
14-7000	IF	3	Loop Antenna Replacement	5/16 Hole	2 1/8	1/2 Diameter	
14-7001	IF	4	Loop Antenna Replacement (Tapped for Outside Antenna)	5/16 Hole	2 1/8	1/2 Diameter	
14-7002	LP	100	Ferrite Rod Antenna 300 to 400 MMFD	Universal	3 1/4	9 1/2 Long	
14-7003	FR	100	Ferrite Rod Antenna 365 to 410 MMFD	FR	1/4 Dia	5 Long	

General Replacement Coils

Designed for replacement as well as original parts by discriminating set builders. Cover broadcast band from 545 to 1,620 KC with 365 UUFD tuning condenser. All coils have high impedance primaries and Litz wire secondaries.

Part No.	Fig.	Schematic # No.	Use	I. F. Frequency	Padder Required	Mtg.	Dimensions H	W	D
14-1010	NT	11	Antenna			Single Bracket	2 1/2	1 1/4 Diameter	
14-1011	NT	11	RF Coil			Single Bracket	2 1/2	1 1/4 Diameter	
14-1022	NT	11	Antenna			Single Bracket	2 1/8	7/8 Diameter	
14-1023	NT	11	RF Coil			Single Bracket	2 1/8	1 1/8 Diameter	
14-1004	AE	33	Antenna			1 3/4	2 1/2	1 3/4	1 3/4
14-1005	AE	33	RF Coil			1 3/4	2 1/2	1 3/4	1 3/4
14-2436	AE	57	Antenna			1 3/8	2	1 3/8	1 3/8
14-2437	AE	57	RF Coil			1 3/8	2	1 3/8	1 3/8
14-3732	PC	7	Oscillator	175 KC	900 UUFD	3/16 Hole	1 1/8	1	1
14-6590	PC	7	Oscillator	262 KC	700 UUFD	3/16 Hole	1 1/8	1	1
14-6592	PC	7	Oscillator	370 KC	500 UUFD	3/16 Hole	1 1/8	1	1
14-4034	PC	7	Oscillator	456 KC	350 UUFD	3/16 Hole	1 1/8	1	1
14-4242	AE	32	Oscillator	175 KC	900 UUFD	1 1/2	1 3/4	1 1/2	1 1/2
14-4243	AE	32	Oscillator	456 KC	350 UUFD	1 1/2	1 3/4	1 1/2	1 1/2

Printed Circuit Oscillator Coils

Part No.	Fig.	Schematic # No.	I. F. Frequency	Mtg.	H	Dia.	Replaces
14-1090	WO	9	455 KC	Printed Circuit	2 1/2	3/4	Westinghouse 230V039H01 & V15764-1
14-1086	WO	7	455 KC	Printed Circuit	1 1/8	11/16	Admiral 69A215-5

Schematics listed at the end of the Pink pages

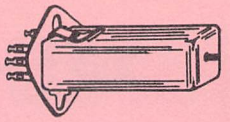
Antenna — RF - Oscillator

3/4" Antenna, RF and Oscillator Coils

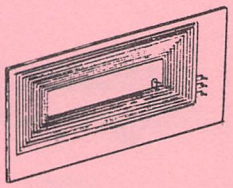
"ADJUSTABLE" INDUCTANCE COILS

Designed for compact receivers of single and multi-band type. Will cover long wave broadcast and three short wave bands (140 KC to 36 MC). To be used with a 365 UUFD tuning condenser and a 456KC I.F. amplifier.

Part No.	Fig.	Schematic No.	Use	Frequency Range	Mtg.	Dimensions	
						H.	W. x D.
14-1407	UM	85	Antenna Coil	140-425KC	Clip	2	3/4 x 3/4
14-1408	UM	85	R. F. Coil	140-425KC	Clip	2	3/4 x 3/4
14-1409	UM	30	Oscillator Coil	140-425KC	Clip	2	3/4 x 3/4
14-1410	UM	85	Antenna Coil	540-1700KC	Clip	2	3/4 x 3/4
14-1411	UM	85	R. F. Coil	540-1700KC	Clip	2	3/4 x 3/4
14-1412	UM	30	Oscillator Coil	540-1700KC	Clip	2	3/4 x 3/4
14-1413	UM	85	Antenna Coil	1.7-5.3 MC	Clip	2	3/4 x 3/4
14-1414	UM	85	R. F. Coil	1.7-5.3 MC	Clip	2	3/4 x 3/4
14-1415	UM	30	Oscillator Coil	1.7-5.3 MC	Clip	2	3/4 x 3/4
14-1416	UM	85	Antenna Coil	5.3-16 MC	Clip	2	3/4 x 3/4
14-1417	UM	85	R. F. Coil	5.3-16 MC	Clip	2	3/4 x 3/4
14-1418	UM	30	Oscillator Coil	5.3-16 MC	Clip	2	3/4 x 3/4
14-1419	UM	16	Antenna Coil	12-36 MC	Clip	2	3/4 x 3/4
14-1420	UM	16	R. F. Coil	12-36 MC	Clip	2	3/4 x 3/4
14-1421	UM	30	Oscillator Coil	12-36 MC	Clip	2	3/4 x 3/4



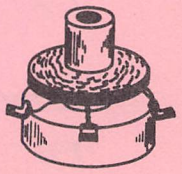
UM



LA

Loop Antenna

Part No.	Fig.	Schematic No.	Use	Mtg.	Dimensions	
					H.	W. x D.
14-6140	LA	7	Broadcast Band Antenna	8"	1/4	6 1/8 x 9 1/4



SM

"Pentagrid" Oscillator Coils

TAPPED TYPE FOR 6SA7, 12SA7 AND OTHER PENTAGRID CONVERTER TUBES 456 KC I.F. COVER BROADCAST BAND

Part No.	Fig.	Schematic No.	Use	Mtg.	Dimensions	
					H.	W. x D.
14-1033	SM	2	With 420 UUFD Condenser and Padder	1/8 hole	1	3/4 Dia.
14-1053	SM	2	With 162 UUFD "Cut" Section Condenser	1/8 hole	1	3/4 Dia.
14-1055	PT	4	"Adjustable" - May be adjusted to track with IF Amplifier between 175 and 500 KC with various Tuning Condensers	1/4 hole	1 1/2	3/4 Dia.

PT

Miniature Coils

These tiny coils have been designed for universal replacement in midget receivers where space is of paramount importance. All coils have adjustable iron cores to permit tracking with all commonly used tuning condensers.

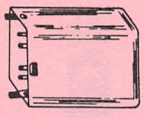
Part No.	Fig.	Schematic No.	Use	Mtg.	Dimensions	
					H.	W. x D.
★14-1071	MF	12	Antenna Coil	Leads	1 1/2	3/8
14-1072	MF	12	R. F. Coil	Leads	1 1/2	1/2
14-1073	MF	9	Oscillator Coil (Pentagrid Converter)	Leads	1	3/8
14-1074	MF	12	Oscillator Coil (Battery Type)	Leads	1	3/8

★ May be used for TV Replacement.
Schematics listed in back of catalog.

MF

"Multi-Band" Coils

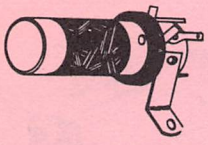
Carefully engineered, and produced for custom set builders, experimenters, and hobbyists. To be used with 456 KC I.F. Channel. All coils provided with complete instructions and diagrams.



AE

Part No.	Fig.	Schematic No.	Use	Frequency Range	Mtg.	Dimensions	
						H.	W. x D.
14-7476	AE	60	Antenna	530-1660 KC & 5.8-19 MC	1 3/4	3	1 3/4 x 1 3/4
14-7478	AE	60	R. F.	530-1660 KC & 5.8-19 MC	1 3/4	3	1 3/4 x 1 3/4
14-7480	AE	60	Oscillator	530-1660 KC & 5.8-19 MC	1 3/4	3	1 3/4 x 1 3/4
14-1070	AE	60	Oscillator (For 12BE6 Tube)	530-1660 KC & 5.8-19 MC	1 3/4	3	1 3/4 x 1 3/4
14-2860	NT	60	Antenna	530-1660 KC & 5.8-19 MC	Single Bracket	3 1/4	1 x 1 1/4
14-2862	NT	25	Oscillator	530-1660 KC & 5.8-19 MC	Single Bracket	2 1/4	1 x 1 1/2
14-1067	AE	61	Antenna	*535 KC-19 MC	2	4 1/8	2 x 2
14-1068	AE	62	R. F.	*535 KC-19 MC	2	4 1/8	2 x 2
14-1069	AE	63	Oscillator	*535 KC-19 MC	2	4 1/8	2 x 2
14-1015	AE	64	Antenna	136-370 KC 530-1580 KC 5.8-18.6 MC	1 3/4	4 1/8	1 3/4 x 1 3/4
14-1016	AE	65	R. F.	136-370 KC 530-1580 KC 5.8-18.6 MC	1 3/4	4 1/8	1 3/4 x 1 3/4
14-1017	AE	66	Oscillator	136-370 KC 530-1580 KC 5.8-18.6 MC	1 3/4	4 1/8	1 3/4 x 1 3/4

* 3 overlapping bands.



NT

Shortwave Adjustable Inductance Coils

Adjustable by means of a HI-Q Iron Core. Tunes with 292 UUFD Condenser. Inexpensive, efficient, compact universal replacements.

PT

Part No.	Fig.	Schematic No.	Use	Frequency Range	Mtg.	Dimensions	
						W. x D.	H.
14-1041	PT	16	Antenna Coil	1.7-5.3 MC	1/4 hole	1 7/8	3/4 Dia.
14-1042	PT	12	R. F. Coil	1.7-5.3 MC	1/4 hole	1 7/8	3/4 Dia.
14-1043	PT	4	Oscillator Coil	1.7-5.3 MC	1/4 hole	1 7/8	3/4 Dia.
14-1061	PT	16	Antenna Coil	1.7-5.3 MC	1/4 hole	1 3/4	3/4 Dia.
14-1062	PT	12	R. F. Coil	1.7-5.3 MC	1/4 hole	1 3/4	3/4 Dia.
14-1063	PT	4	Oscillator Coil (Tapped for 6SA7 type penta grid converter)	1.7-5.3 MC	1/4 hole	1 3/4	3/4 Dia.
14-1044	PT	16	Antenna Coil	5.3-16.5 MC	1/4 hole	1 7/8	1/2 Dia.
14-1045	PT	16	R. F. Coil	5.3-16.5 MC	1/4 hole	1 7/8	1/2 Dia.
14-1046	PT	4	Oscillator Coil	5.3-16.5 MC	1/4 hole	1 7/8	1/2 Dia.
14-1064	PT	16	Antenna Coil	5.3-16.5 MC	1/4 hole	1 3/4	3/4 Dia.
14-1065	PT	16	R. F. Coil	5.3-16.5 MC	1/4 hole	1 3/4	3/4 Dia.
14-1066	PT	4	Oscillator Coil	5.3-16.5 MC	1/4 hole	1 3/4	3/4 Dia.

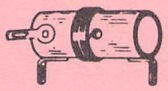
Schematics listed in back of catalog.

Antenna-RF-Oscillator

FM Antenna, RF and Oscillator Coils

88-108MC WITH 10.7 MC IF STRIP.

Part No.	Fig.	Schematic # No.	Use	Mtg.	Dimensions H	Dimensions W D
14-6417	CL	7	Antenna Coil	Lugs	1	5/8 Diameter
14-6418	CL	2	RF Coil	Lugs	1	5/8 Diameter
14-6419	CL	2	Oscillator Coil	Lugs	1	5/8 Diameter



CL

"Universal" Adjustable Inductance Oscillator Coils

For 456 KC I.F. strips, can be used with over 25 different tube types. Simple screw-driver adjustment. Instructions are included for proper use.

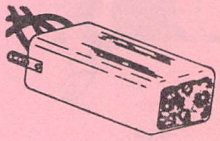
Part No.	Fig.	Schematic # No.	Mtg.	Dimensions H	Dimensions W D
14-1040	PT	15	1/4 Hole	1 7/8	5/8 Diameter
14-1060	PT	15	1/4 Hole	1 3/4	3/4 Diameter

PT

Aircraft Band Coils

Compact aircraft coils to cover the 195-410 KC range with a 365 UUFD Condenser. Coils designed for 456 KC I.F. system. Oscillator coil requires a 200 UUFD (Nominal) padder. Shielded.

Part No.	Fig.	Schematic # No.	Use	Mtg.	Dimensions H	Dimensions W	Dimensions D
14-1030	MT	69	Antenna Coil	1 3/8	1 3/4	1 3/8	1 3/8
14-1031	MT	70	RF Coil	1 3/8	1 3/4	1 3/8	1 3/8
14-1032	MT	70	Oscillator Coil	1 3/8	1 3/4	1 3/8	1 3/8



MT

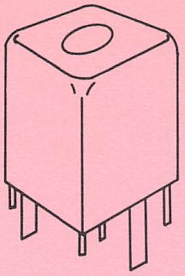
Citizen Band Transformers and Coils

The following matched sets of transformers and coils provide top performance in 11 Meter Band Transceiver operation. The first set was designed to provide for home to home or business communication, while the second set provides for a completely portable — hand held transceiver. Complete schematic diagrams and construction hints are supplied with each unit

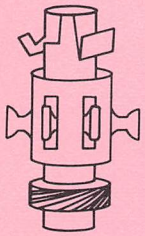
Part No.	SET #1 Name	Description
20-1021	RF Coils	27MC Single Winding Adjustable Coil (4 Required)
19-6846	RF Choke	75MH Choke
20C48	Filter Choke	8 Hy. @ 75MADC Choke
24R09U	Power Transformer	250-0-250V @ 70MA, 5V @ 2A, 6.3VCT @ 2.5A
21M55	Modulation Output	5,000 Ohms, 6,750 Ohms, 4 Ohms
24-8274	Switch	4 Pole Double Throw Transmit-Receive-Switch

Part No.	SET #2 Name	Description
14-1095	Tank Coil	Receiver Tank Coil with Take-off Tap
19-1050	RF Choke	2.5MH Choke
19-1005	RF Choke	10UH Choke
19-1027	Antenna Coil	Transmitter Antenna Coil
19-1002	Loading Coil	2.4UH Loading Coil
20-1021	Oscillator Coil	27MC Single Winding Adjustable Coil
24S80	Output Transformer	10,000 Ohms, 2,000 Ohm Secondary
20A80	Input Transformer	100 Ohms or 1,000 Ohms to 100,000 Ohm Grid

Schematics listed at the end of the Pink pages



SS



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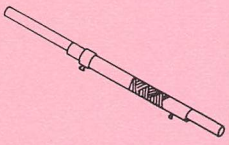

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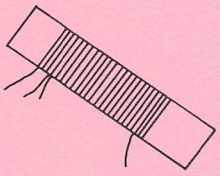
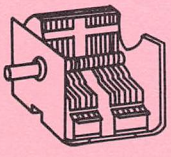


FF

US



VM

COILS

Transistor Coils and Condensers

Transistor I.F.

PERMEABILITY TUNED. MAY BE USED IN PRINTED CIRCUITS. ALL UNITS 1/2" SQUARE — LUG MOUNTED. FIG. SS.

Part No.	Frequency	Schematic # No.	Primary Impedance	Secondary Impedance	Height	Application
16-9001	262 KC	106	20,000	600	3/4	A - J - S
16-9002	455 KC	106	25,000	600	3/4	A - J - S
16-9003	455 KC	106	10,000	500	5/8	A - J
16-9004	455 KC	106	10,000	1,500	5/8	S
16-9007	455 KC	107	80,000	25	5/8	A
16-9008	455 KC	107	30,000	25	5/8	J
16-9009	455 KC	106	30,000	1,000	5/8	S
16-9012	455 KC	106	25,000	250	5/8	A
16-9013	455 KC	106	20,000	150	5/8	J
16-9014	455 KC	106	20,000	1,000	5/8	S
16-9015	455 KC	106	100,000	1,000	5/8	S
16-9020	455 KC	106	Admiral 72C182-11			
16-9021	455 KC	106	Admiral 72C182-12			
16-9022	455 KC	106	Admiral 72C223-1			
16-9023	455 KC	106	Admiral 72C223-2			
16-9024	455 KC	106	Admiral 72C223-3			
16-9025	455 KC	106	Admiral 72C182-13			
	SAME AS ABOVE EXCEPT 3/8" SQUARE					
16-9016	455 KC	106	25,000	600	5/8	A
16-9017	455 KC	106	25,000	1,000	5/8	S

Applications: (A) Input, (J) Interstage, (S) Output

Ferrite Antenna Coils

HIGH Q FOR MAXIMUM PICKUP — MAXIMUM TRANSFER OF ENERGY TO TRANSISTOR. BROADCAST FREQUENCIES.

Part No.	Fig.	Schematic # No.	Tuning Condenser Cap. M.M.F.	Nominal Inductance U.H.	Dimensions
14-9001	FF	103	98	880	5/32 x 3/4 x 2 5/8
14-9003	FR	12	365	240	1/2 Dia. x 7 Lg.
14-9005	FF	104	123	667	5/32 x 3/4 x 3 1/8
14-9009	FR	12	165	506	3/8 Dia. x 7 Lg.
14-9011	FR	12	73	1,125	3/8 Dia. x 5 Lg.
14-9013	FR	12	123	667	3/8 Dia. x 5 Lg.
14-9015	IF	4	100 - 365	200 - 900	3/8 Dia. x 2 Lg.
14-9017	FR	103	365	240	3/4 x 1 x 3 1/2
14-9019	FF	103	365	240	5/32 x 13/16 x 3 1/2
14-9022	FF	103	110	750	5/32 x 3/4 x 2 3/4 Admiral 69C218-16
14-9023	FF	103	123	667	5/32 x 3/4 x 2 7/8 Admiral 69C218-12

Oscillator Coils

POPULAR COILS FOR REPLACEMENT, HOBBYIST AND EXPERIMENTER. BROADCAST FREQUENCIES.

Part No.	Fig.	Schematic # No.	Tuning Condenser Cap. M.M.F.	Nominal Inductance U.H.	Dimensions
14-9004	IF	15	365 (Pad. 750)	140	11/16 Dia. x 7/8 H.
14-9006	SS	105	78	248	1/2 x 1/2 x 5/8 H.
14-9020	SS	106	98	207	3/8 x 3/8 x 5/8 H.
14-9010	IF	83	82	262	9/16 Dia. x 1 1/8 H.
14-9012	US	83	82	262	9/16 Dia. x 1 1/8 H.
14-9014	IF	83	98	207	11/16 Dia. x 7/8 H.
14-9016	IF	83	365 (Pad. 750)	145	11/16 Dia. x 7/8 H.
14-9024	US	83	Admiral 69A246-2, 69B246-2		
14-9025	US	83	Admiral 69B246-5		
14-9026	US	83	Admiral 79B232-6, 79B232-16		

Midget Variable Condensers

FOR TRANSISTOR TYPE RECEIVERS

Two section counter clockwise rotation for capacity increase. Shaft diameter is 1/4".

Part No.	Capacity Range Antenna Section	Capacity Range Oscillator Section	Dimensions	Mounting
21-9001	5.5 to 74 MMF	5.2 to 58 MMF	1 3/8 x 1 5/16 x 15/16	4-36 Tapped Holes
21-9002	8.8 to 131.9 MMF	8.5 to 106.3 MMF	1 3/8 x 1 5/16 x 1 3/16	6-32 Tapped Holes
21-9003	8.8 to 131.9 MMF	7.7 to 85.9 MMF	1 3/8 x 1 5/16 x 15/16	6-32 Tapped Holes
21-9004	9.9 to 182.3 MMF	7.7 to 85.9 MMF	1 3/8 x 1 5/16 x 1 3/16	6-32 Tapped Holes
21-9005	10 to 365 MMF	10 to 365 MMF	2 3/16 x 1 13/16 x 1 5/8	6-32 Tapped Holes
21-9006	Single Section 10-365 MMF		1 3/8 x 1 5/16 x 1 3/16	6-32 Tapped Holes

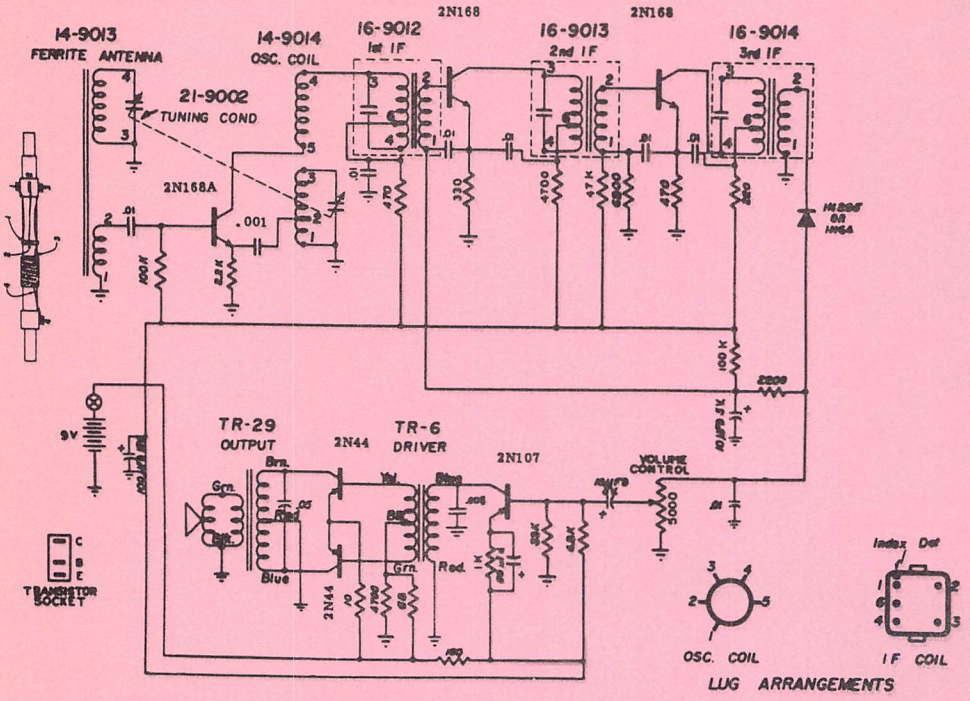
Schematics listed at the end of the Pink pages

Transistor Circuit

Build It Yourself—All Transistor Receiver

COMPLETE SCHEMATIC AND PARTS LIST

Six Transitor AM Receiver — 540-1650 KC.



1	Ferrite Antenna Coil	Part #14-9013
1	Oscillator Coil	Part #14-9014
1	1st IF Transformer	Part #16-9012
1	2nd IF Transformer	Part #16-9013
1	3rd IF Transformer	Part #16-9014
1	Driver Transformer	Part #TR-6
1	Output Transformer	Part #TR-29

TRANSISTORS

2N168A	CONVERTER	G.E.
2N168	1st and 2nd IF	G.E. or Equal
2N107	1st AUDIO	G.E. or Equal
2N44	AUDIO OUTPUT	G.E. or Equal
Crystal Diode 1N64 or 1N295		Sylvania, RCA, Raytheon or Equivalent

RESISTORS

1	10 Ohms 1/2 W Carbon 10%	(Brn-Blk-Blk)
1	68 Ohms 1/2 W Carbon 10%	(Blue-Sl-Blk)
1	100 Ohms 1/2 W Carbon 10%	(Brn-Blk-Brn)
1	220 Ohms 1/2 W Carbon 10%	(Red-Red-Brn)
1	330 Ohms 1/2 W Carbon 10%	(Or-Or-Brn)
2	470 Ohms 1/2 W Carbon 10%	(Yel-Pur-Brn)
1	1000 Ohms 1/2 W Carbon 10%	(Brn-Blk-Red)
2	2200 Ohms 1/2 W Carbon 10%	(Red-Red-Red)
2	4700 Ohms 1/2 W Carbon 10%	(Yel-Pur-Red)
2	6800 Ohms 1/2 W Carbon 10%	(Blue-Sl-Red)
1	33000 Ohms 1/2 W Carbon 10%	(Or-Or-Or)
1	47000 Ohms 1/2 W Carbon 10%	(Yel-Pur-Or)
2	100000 Ohms 1/2 W Carbon 10%	(Brn-Blk-Yel)

CONDENSERS

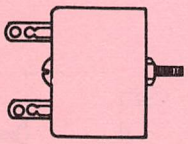
2	10 MFD 5V Tubular Electrolytic
8	.01 MFD 200V (Paper or Ceramic)
1	.005 MFD 200V (Paper or Ceramic)
1	.05 MFD 200V (Paper or Ceramic)
2	10 MFD 5V Tubular Electrolytic
1	50 MFD 5V Tubular Electrolytic
1	100 MFD 15 Tubular Electrolytic

MISCELLANEOUS

6	Transistor Sockets	
3	5-Terminal Insulated Tie Lugs	
1	1-Terminal Insulated Tie Lug	
1	2-Gang Variable Condenser	Part #21-9002
1	PM SPKR	
1	5000 Ohm Volume Control with Switch	
1	9 Volt Battery Eveready 226, 239 or 276	
	Hook Up Wire 24 or 22 AWG	
	Rosin Core Solder 60/40	
1	Chassis	
1	Battery Plug or Clips to match battery	
1	Perforated Fibre Strip to mount antenna coil	

See the blue section of this catalog for the transformer descriptions.

BC



SF

CK

PI

SW

Air Core RF Chokes

Thoroughly moisture proofed: Single 6/32 hole mounting. Schematic #1, dimensions 7/8 long x 1 1/8 diameter. Fig. BC

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity
19-1986	.25	10	50
19-1987	.5	15	50
19-1988	.75	15	50
19-1989	1.0	24	50
19-1990	1.5	29	50
19-1994	2.5	40	20
19-4551	5.5	57.5	20

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity
19-2078	8	75	20
19-8770	10	82.5	20
19-1995	16	108	20
19-1991	20	140	20
19-2330	30	159	20
19-3247	60	258	20
19-2709	80	372	16

SF TYPE

Mounting Type SF, schematic number 28, mount with 6/32 screw, dimensions 7/8 high - 1 3/8 x 1 3/8 case. 19-7908 is 1 3/4 high.

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity
19-7908	.0825	2.05	50
19-5580	.5	11	50
19-5581	1.0	19	50
19-5582	2.5	37	20
19-5584	5.5	62	20
19-5588	8	77	30

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity
19-1900	10	82	20
19-5590	16	109	20
19-5592	30	165	20
19-5594	60	318	16
19-5596	80	342	16

RF Filament Chokes Single layer Wound

Mounting type SW, schematic number 1, dimensions 3/4 long x 3/8 diameter.

Part No.	Inductance U.H.	D.C. Res. Ohms	Current Capacity
19-1007	.7	.1	300
19-1000	1	.207	300
19-1001	1.5	.252	300
19-1002	2.4	.331	300
19-1003	3.9	.4	300

Part No.	Inductance U.H.	D.C. Res. Ohms	Current Capacity
19-1008	5.5	.69	300
19-1004	6.2	.525	300
19-1009	8.2	1.12	300
19-1005	10	.697	300

RF Chokes — Universal Progressive Wound

LOW DISTRIBUTED CAPACITY.

Mounting type CK, schematic number 1, dimensions 7/8 high x 3/8 diameter.

Part No.	Inductance U.H.	D.C. Res. Ohms	Current Capacity
19-6022	22	1.17	300
19-6033	33	1.43	300
19-7047	47	0.82	300

Part No.	Inductance U.H.	D.C. Res. Ohms	Current Capacity
19-7068	68	1.10	300
19-7100	100	1.33	300

Phenolic Form 3 PI Windings

LOW DISTRIBUTED CAPACITY.

Mounting type PI, schematic number 1, dimensions 3/4 long x 3/16 diameter.

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity
19-1030	.1	4.1	125
19-1031	.15	5	125
19-1032	.24	6.6	125
19-1033	.39	8.7	125

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity
19-1034	.55	10	125
19-1035	.62	11	125
19-1036	.75	13	125
19-1037	1.0	15	125

Multiple PI Wound Choke

LOW DISTRIBUTED CAPACITY.

Mounting type PI, schematic number 1

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity
19-1060	.25	8	200
19-1061	.5	12	200
19-1062	1	17	200
19-1063	1.5	21	200
19-1064	2.5	28	200

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity
19-1065	5	42	125
19-1066	7.5	82	125
19-1067	10	95	125
19-1068	25	160	125

Chokes

"Iron Core" RF Chokes

High permeability powdered iron cores, universal wound.
Mounting type BC, schematic number 20, dimensions 1" long x 1 1/8 diameter.
19-2400 mounting CK, schematic number 1, dimensions 1"long x 1/2 diameter.

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity MA
19-6832	.5	9	50
19-6833	1.0	14	50
19-2400	2.4	12	125
19-6834	2.5	22.5	20
19-6837	5.0	34	20
19-6840	10.0	51.4	20

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity MA
19-6842	30	114	20
19-6844	60	247	15
19-6846	80	258	15
19-6848	125	330	15
19-6849	150	450	15

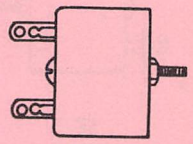
BC

SF TYPE

Mounting type SF, schematic number 28, dimensions 1"high 1 3/8 x 1 3/8 Case.

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity MA
19-6854	2.5	22.5	20
19-6860	10	51.4	20
19-6862	30	114	20

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity MA
19-6864	60	247	15
19-6866	80	258	75
19-6868	125	330	75



SF

"Iron Core" Single layer Wound

Mounting type CK, schematic number 20, dimensions 7/32 x 7/8 long.

Part No.	Inductance U.H.	D.C. Res. Ohms	Current Capacity MA
19-1010	10	.06	300
19-1006	15	.02	300
19-1011	24	.28	300
19-1012	39	.65	300

Part No.	Inductance U.H.	D.C. Res. Ohms	Current Capacity MA
19-1013	55	.92	300
19-1014	62	1.0	300
19-1015	82	1.6	300
19-1016	100	2.0	200

CK

Heavy Duty Hash Chokes

Especially designed for hash interference such as vibrator and motor noises, ignition and generator interference. These high efficiency, high inductance and high current chokes may also be used as parasitic suppressors in transmitter equipment. Mounting type HC, schematic number 20, dimensions 5/8 x 1 1/4 long.
19-4215 Mounting type WC, schematic number 1, dimensions 5/8 x 1 1/4

Part No.	Inductance U.H.	D.C. Res. Ohms	Current Capacity
19-4214	3.35	.008	13A
19-4215	4.0	.012	6A

Part No.	Inductance U.H.	D.C. Res. Ohms	Current Capacity
19-4216	4.9	.013	8A
19-4217	8.8	.017	5A

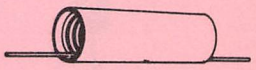
HC

"Iron Core" 3 Section Windings

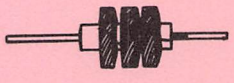
Mounting type PI, schematic number 20, dimensions 7/32 x 7/8 long.

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity MA
19-1040	1.0	7	125
19-1041	1.5	9	125
19-1047	2.4	12	125
19-1042	3.9	17	125

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity MA
19-1043	5.5	22	125
19-1044	6.2	33	125
19-1045	8.2	45	100
19-1046	10	47	50

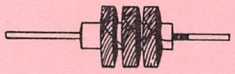


WC



PI

Ferrite Core RF Chokes



PI

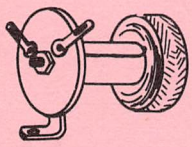
Through the use of high permeability ferrite cores a high inductance, along with a low DC resistance and small size is now available to the industry.

Mounting type PI, schematic number 20, dimensions 1/4 x 7/8 long.

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Cacpacity MA
19-1050	2.5	8.3	200
19-1051	5	13.5	200
19-1052	10	28	125

Part No.	Inductance M.H.	D.C. Res. Ohms	Current Capacity MA
19-1053	25	70	75
19-1054	50	110	75

Adjustable "Universal" RF Chokes



SB

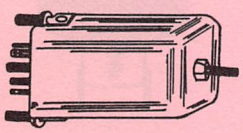
For set builders, experimenters and hobbyists who require inductance slightly different than standard values. This series of coils has been designed to permit variations by simple screwdriver adjustment, making possible exact tuning of the circuit. Shielded coils have terminals in base.

Mounting type SB, schematic 3, dimensions 1 1/4 high x 1 1/8 diameter. Mounted by single bracket.

Part No.	Inductance M.H.			Current Capacity MA
19-6880	.045	-	.11	200
19-6881	.095	-	.21	200
19-6882	.19	-	.42	200
19-6883	.38	-	.75	125
19-6884	.68	-	1.1	125
19-6885	.95	-	1.6	125
19-6886	1.5	-	2.3	125
19-6887	2.0	-	3.2	125

Part No.	Inductance M.H.			Current Capacity MA
19-6888	3.0	-	4.7	125
19-6889	4.5	-	7.2	125
19-6890	7.0	-	11	125
19-6891	10	-	16	125
19-6892	15	-	23	125
19-6893	20	-	31	100
19-6894	30	-	50	100

Mounting type ST, schematic 29, dimensions 2 1/2 high x 1 3/8 x 1 3/8, mounting centers 1 3/8.



ST

Part No.	Inductance M.H.			Current Capacity MA
19-6872	2.5	-	10	110
19-6874	10	-	30	110
19-6876	30	-	60	100

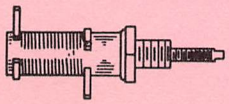
Adjustable Ceramic Form Inductors

Sub-miniature wound on silicone impregnated ceramic forms for maximum stability. Mounting hardware supplied. Mounting type CF, schematic number 3, dimensions 5/8 high, mounting centers 3/16 holes.

Part No.	Inductance Range U.H.			Diameter
19-6800	.15	-	.28	1/4
19-6801	.25	-	.40	1/4
19-6802	.38	-	.70	1/4
19-6803	.65	-	1.2	1/4
19-6804	1.0	-	2.0	1/4
19-6805	2.0	-	4.0	1/4
19-6806	4.0	-	8.0	1/4

Part No.	Inductance Range U.H.			Diameter
19-6807	8.0	-	16.0	1/4
19-6808	16	-	32	1/4
19-6809	32	-	64	5/16
19-6810	64	-	120	5/16
19-6811	120	-	240	5/16
19-6812	240	-	400	3/8

Adjustable Nylon Form Chokes



CF

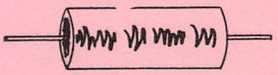
Part No.	Fig.	Schematic	Inductance In U.H.	Mtg.	H.	Diameter
19-6815	CF	3	Form Only	5/16	1 3/8	3/8
19-6816	CF	3	1 - 2.5	5/16	1 3/8	3/8
19-6817	CF	3	2 - 5.5	5/16	1 3/8	3/8
19-6818	CF	3	5 - 12	5/16	1 3/8	3/8
19-6819	CF	3	10 - 25	5/16	1 3/8	3/8
19-6820	CF	3	20 - 55	5/16	1 3/8	3/8
19-6821	CF	3	50 - 140	5/16	1 3/8	3/8
19-6822	CF	3	120 - 330	5/16	1 3/8	3/8
19-6823	CF	3	310 - 860	5/16	1 3/8	3/8

Chokes

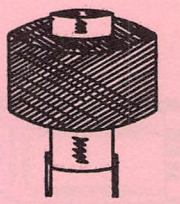
Encapsulated RF Chokes

These chokes are encapsulated in epoxy resin and conform to MIL-C-15305A. A complete range of inductance is available from 0.1 UH to 50 MH in a small and fully insulated coil. Fig. EC

Part No.	Inductance ± 5%	Resistance ± 10%	Self Resonant Frequency	Q Frequency	Dimensions	Current MA	Schematic
19-2001	0.1 uh.	.01	540 Mc.	82 @ 25 Mc.	.375 x 1.125	300	1
19-2002	0.15 uh.	.012	455 Mc.	90 @ 25 Mc.	.375 x 1.125	300	1
19-2003	0.22 uh.	.017	360 Mc.	92 @ 25 Mc.	.375 x 1.125	300	1
19-2004	0.33 uh.	.019	300 Mc.	95 @ 25 Mc.	.375 x 1.125	300	1
19-2005	0.47 uh.	.022	270 Mc.	105 @ 25 Mc.	.375 x 1.125	300	1
19-2006	0.68 uh.	.03	235 Mc.	110 @ 25 Mc.	.375 x 1.125	300	1
19-2007	0.75 uh.	.033	230 Mc.	115 @ 25 Mc.	.375 x 1.125	300	1
19-2008	0.82 uh.	.035	220 Mc.	115 @ 25 Mc.	.375 x 1.125	300	1
19-2009	1.0 uh.	.05	205 Mc.	110 @ 25 Mc.	.375 x 1.125	300	1
19-2010	1.5 uh.	.08	170 Mc.	68 @ 7.9 Mc.	.375 x 1.125	300	1
19-2011	2.4 uh.	.16	136 Mc.	70 @ 7.9 Mc.	.375 x 1.125	300	1
19-2012	3.9 uh.	.5	100 Mc.	70 @ 7.9 Mc.	.375 x 1.125	300	1
19-2013	5.5 uh.	.69	85 Mc.	70 @ 7.9 Mc.	.375 x 1.125	300	1
19-2014	6.2 uh.	.75	80 Mc.	70 @ 7.9 Mc.	.375 x 1.125	300	1
19-2015	8.2 uh.	1.12	70 Mc.	70 @ 7.9 Mc.	.375 x 1.125	300	1
19-2016	10.0 uh.	1.5	60 Mc.	70 @ 7.9 Mc.	.375 x 1.125	200	1
19-2017	10.0 uh.	.06	40 Mc.	85 @ 2.5 Mc.	.375 x 1.125	300	20
19-2018	15.0 uh.	.12	37 Mc.	85 @ 2.5 Mc.	.375 x 1.125	300	20
19-2019	24.0 uh.	.28	31 Mc.	80 @ 2.5 Mc.	.375 x 1.125	300	20
19-2020	39.0 uh.	.65	24 Mc.	85 @ 2.5 Mc.	.375 x 1.125	300	20
19-2021	55.0 uh.	.92	20 Mc.	90 @ 2.5 Mc.	.375 x 1.125	300	20
19-2022	62.0 uh.	1.0	18 Mc.	95 @ 2.5 Mc.	.375 x 1.125	300	20
19-2023	82.0 uh.	1.6	17 Mc.	110 @ 2.5 Mc.	.375 x 1.125	300	20
19-2024	100.0 uh.	2.0	14 Mc.	130 @ 2.5 Mc.	.375 x 1.125	200	20
19-2025	0.10 mh.	4.1	15 Mc.	20 @ 790 Kc.	.500 x 1.125	125	1
19-2026	0.15 mh.	5.0	10.5 Mc.	25 @ 790 Kc.	.500 x 1.125	125	1
19-2027	0.24 mh.	6.6	8.0 Mc.	20 @ 790 Kc.	.500 x 1.125	125	1
19-2028	0.39 mh.	8.7	6.5 Mc.	20 @ 790 Kc.	.500 x 1.125	125	1
19-2029	0.55 mh.	10.0	5.0 Mc.	20 @ 790 Kc.	.625 x 1.125	125	1
19-2030	0.62 mh.	11.0	4.8 Mc.	20 @ 790 Kc.	.625 x 1.125	125	1
19-2031	0.75 mh.	13.0	4.3 Mc.	20 @ 790 Kc.	.625 x 1.125	125	1
19-2032	1.0 mh.	15.0	3.7 Mc.	35 @ 250 Kc.	.625 x 1.125	125	1
19-2033	1.0 mh.	7.0	3.0 Mc.	95 @ 250 Kc.	.625 x 1.125	125	20
19-2034	1.5 mh.	9.0	2.5 Mc.	100 @ 250 Kc.	.625 x 1.125	125	20
19-2035	2.4 mh.	12.0	2.0 Mc.	100 @ 250 Kc.	.625 x 1.125	125	20
19-2036	3.9 mh.	17.0	1450 Kc.	90 @ 250 Kc.	.750 x 1.375	125	20
19-2037	5.5 mh.	22.0	1280 Kc.	85 @ 250 Kc.	.750 x 1.375	125	20
19-2038	6.2 mh.	33.0	1170 Kc.	110 @ 250 Kc.	.750 x 1.375	100	20
19-2039	8.2 mh.	45.0	1050 Kc.	100 @ 250 Kc.	.750 x 1.375	100	20
19-2040	10.0 mh.	47.0	940 Kc.	80 @ 250 Kc.	.750 x 1.375	50	20
19-2041	2.5 mh.	8.3	1590 Kc.	100 @ 250 Kc.	.625 x 1.375	200	20
19-2042	5.0 mh.	13.5	1130 Kc.	90 @ 250 Kc.	.750 x 1.375	200	20
19-2043	10.0 mh.	28.0	820 Kc.	90 @ 79 Kc.	.750 x 1.375	125	20
19-2044	25.0 mh.	70.0	570 Kc.	95 @ 79 Kc.	.750 x 1.375	75	20
19-2045	50.0 mh.	110.0	330 Kc.	90 @ 79 Kc.	.750 x 1.375	75	20



EC

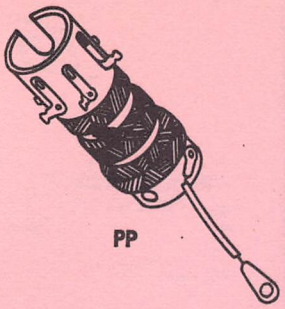


PH

Printed Circuit Air Core RF Chokes

To provide tor the ever expanding use of printed circuitry a complete line of RF chokes for this application is now available. 1 MH to 100 MH Coil length 7/8" Fig. PH.

Part No.	Inductance ± 5%	Resistance ± 10%	Self Resonant Frequency	Q Frequency	Diameter	Current M.A.	Schematic
19-3400	1.0 mh.	17.2 ohms	1970 Kc.	57 @ 250 Kc.	.700	125	1
19-3401	1.2 mh.	19.8 ohms	1830 Kc.	59 @ 250 Kc.	.720	125	1
19-3402	1.5 mh.	21.8 ohms	1725 Kc.	62 @ 250 Kc.	.740	125	1
19-3403	1.8 mh.	24.7 ohms	1550 Kc.	63 @ 250 Kc.	.750	125	1
19-3404	2.2 mh.	27.4 ohms	1430 Kc.	64 @ 250 Kc.	.770	125	1
19-3405	2.7 mh.	31.2 ohms	1330 Kc.	65 @ 250 Kc.	.800	125	1
19-3406	3.3 mh.	34.8 ohms	1230 Kc.	66 @ 250 Kc.	.820	125	1
19-3407	3.9 mh.	38.9 ohms	1125 Kc.	65 @ 250 Kc.	.850	125	1
19-3408	4.7 mh.	43.2 ohms	1060 Kc.	66 @ 250 Kc.	.875	125	1
19-3409	5.6 mh.	48.0 ohms	950 Kc.	64 @ 250 Kc.	.910	125	1
19-3410	6.8 mh.	53.6 ohms	895 Kc.	64 @ 250 Kc.	.950	125	1
19-3411	8.2 mh.	60.8 ohms	650 Kc.	48 @ 250 Kc.	.850	100	1
19-3412	10.0 mh.	68.0 ohms	600 Kc.	54 @ 79 Kc.	.880	100	1
19-3413	12.0 mh.	77.0 ohms	530 Kc.	58 @ 79 Kc.	.910	100	1
19-3414	15.0 mh.	87.7 ohms	498 Kc.	61 @ 79 Kc.	.950	100	1
19-3415	18.0 mh.	97.9 ohms	463 Kc.	64 @ 79 Kc.	.985	100	1
19-3416	22.0 mh.	108.0 ohms	400 Kc.	64 @ 79 Kc.	.985	75	1
19-3417	27.0 mh.	121.0 ohms	367 Kc.	64 @ 79 Kc.	1.045	75	1
19-3418	33.0 mh.	209 ohms	360 Kc.	55 @ 79 Kc.	1.000	75	1
19-3419	39.0 mh.	231 ohms	330 Kc.	55 @ 79 Kc.	1.050	75	1
19-3420	47.0 mh.	263 ohms	238 Kc.	50 @ 79 Kc.	.910	50	1
19-3421	56.0 mh.	292 ohms	221 Kc.	49 @ 79 Kc.	.950	50	1
19-3422	68.0 mh.	326 ohms	200 Kc.	42 @ 79 Kc.	1.000	50	1
19-3423	82.0 mh.	368 ohms	181 Kc.	39 @ 79 Kc.	1.025	50	1
19-3424	100.0 mh.	394 ohms	172 Kc.	37 @ 79 Kc.	1.075	50	1



PP

"Plug-In" Type Coils

For use by hobbyists interested in building regenerative type receivers. Cover range from 17-1500 meters. For use with Socket Type 9693. Complete instructions furnished.

Part No.	Fig.	Schematic No.	Frequency Range	Mtg.	Dimensions	
					H.	W. x D.
18-2944	PP	9	200- 550 KC	Socket	2	½ Dia.
18-2943	PP	8	550-1500 KC	Socket	1¾	1 Dia.
18-2942	PP	8	8.6-17.6 MC	Socket	1¾	1 Dia.
18-2940	PP	8	15-43 MC	Socket	1¾	1 Dia.
18-2941	PP	8	43-86 MC	Socket	1¾	1 Dia.
18-3500	PP	9	175- 540 KC	Socket	2	½ Dia.
18-3501	PP	9	540-1500 KC	Socket	2	½ Dia.
18-3502	PP	7	1.4-4.5 MC	Socket	1⅝	1 Dia.
18-3503	PP	7	3.2-8.2 MC	Socket	1⅝	1 Dia.
18-3604	PP	7	8-18 MC	Socket	1⅝	1 Dia.
18-3505	PP	7	15-34 MC	Socket	1⅝	1 Dia.
9693	Socket for Above					

CC

Transmitter Chokes

Highly efficient R.F. chokes for amateur and commercial use: six lateral wound sections. Provide efficient action over a wide frequency range. Low distributed capacity windings are on ceramic dowels with tapped end holes. Mounting brackets included.

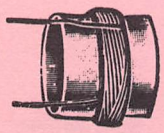
Part No.	Fig.	Schematic No.	Inductance M.H.	Current Capacity M.A.	Resistance Ohms	Mtg.	Dimensions	
							H.	W. x D.
19-3018	CC	1	2.5	1000	5	3¾	2½	4⅛ x 1⅛
19-3019	CC	1	2.8	1000	5	3¾	2½	4⅛ x 1¾
19-3022	CC	1	5.5	500	12.5	3¾	2½	4⅛ x 2
19-3025	CC	1	5.9	200	34.9	3¾	2½	4⅛ x 1½

WF

Replacement I.F. Windings and Slip-Over Primaries

Coupling is adjustable by sliding primary. Complete instructions are furnished.

Part No.	Fig.	Schematic No.	Use	Mtg.	Dimensions	
					H.	W. x D.
16-6600	WF	7	157 KC Replacement IF Winding		1¾	¾
16-6601	WF	7	456 KC Replacement IF Winding		1¾	¾
16-6602	WF	8	175 KC Replacement IF Winding		1¾	¾
16-6603	WF	8	456 KC Replacement IF Winding		1¾	¾
14-6850	SP	1	"Slipover" RF Primary	1¼	¾	1 7/16
14-6852	SP	1	"Slipover" RF Primary	1	¾	1 7/16
14-6854	SP	1	"Slipover" RF Primary	⅞	¾	1
14-6856	SP	1	"Slipover" RF Primary	¾	¾	1 1/16
14-8418	SP	1	"Slipover" RF Primary	½	¼	1 1/16
14-6865	SP	1	Dowel MTG RF Primary		½	½



SP

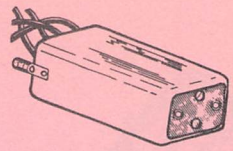
Schematics listed in back of catalog.

Special Purpose

Phono-Oscillator Coil

For use in building either wireless or direct connected phonograph —oscillator units for record reproduction through the radio receiver.

Part No.	Fig.	Schematic No.	Use	Mtg.	Dimensions	
					H.	W. x D.
17-9373	MT	78	See "How to Build" Manual for Circuit.	1 3/8	3 1/2	1 3/8 x 1 3/8

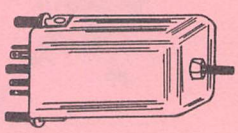


MT

456 KC. Narrow Band Discriminator Coil

Designed for use in adaptors for converting regular communication receivers with 456 KC I. F. systems to narrow band F. M. Peak separation of discriminator is approximately 25KC and useable linear portion of characteristic is about 15 KC.

Part No.	Fig.	Schematic No.	Mtg.	Dimensions	
				H.	W. x D.
17-3486	ST	80	1 3/8	2 1/2	1 3/8 x 1 3/8

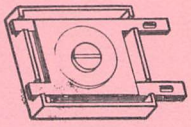


ST

Beat Frequency Oscillator Coils

FOR USE WITH STANDARD I. F.'S IN SUPERHET RECEIVERS.

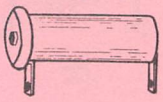
Part No.	Fig.	Schematic No.	Use	Mtg.	Dimensions	
					H.	W. x D.
17-6074	MT	79	Fixed Pitch for 290-650 KC I.F.	1 3/8	3	1 3/8 x 1 3/8
17-6753	MT	79	Variable Pitch Control for 456 KC I.F.	1 3/8	3	1 3/8 x 1 3/8



OP

RF Filament Supply Coil

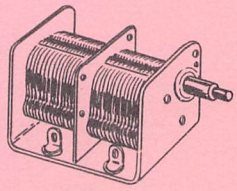
Part No.	Fig.	Schematic No.	Use	Mtg.	Dimensions	
					H.	W. x D.
17-1000	ST	81	100 KC R.F. Oscillating Coil	1 3/8	3	1 3/8 x 1 3/8



AL

Adjustable Oscillator Padder Condensers

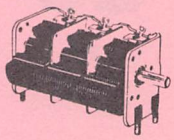
Part No.	Fig.	Capacity Range UUFD	Mtg.	Dimensions	
				H.	W. x D.
22-7000	OP	15- 115	1/4 hole	3/8	7/8 x 1 1/8
22-7001	OP	65- 315	1/4 hole	3/8	7/8 x 1 1/8
22-7006	OP	110- 560	1/4 hole	3/8	7/8 x 1 1/8
22-7007	OP	260- 800	1/4 hole	3/8	7/8 x 1 1/8
22-7008	OP	340-1100	1/4 hole	3/8	7/8 x 1 1/8



VA

"Alignaire" Condenser

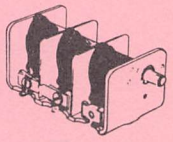
Part No.	Fig.	Capacity Range UUFD	Mtg.	Dimensions	
				H.	W. x D.
22-5230	AL	2-12	solder lugs	7/16 Dia.	1 1/8



VC

Tuning Condenser

Part No.	Fig.	Use	Mtg.	Dimensions	
				H.	W. x D.
21-6128	VA	2 section variable 11-420 UUFD per section.	(3) 6-32 tapped holes	2 3/8	1 13/16 x 2 13/16
21-5202	VC	3 section variable 12-465 MMFD per section.	3/4 x 3 1/4	1 13/16	1 5/8 x 3 3/16
21-6131	VE	3 section variable—22 UUF per section—trimmers on center and rear section.	(3) 6-32 tapped holes	1 5/8	1 13/16 x 3 3/16



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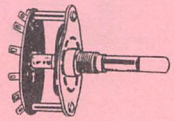
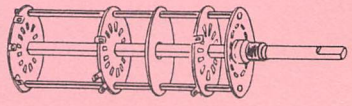


EA

Band Switches

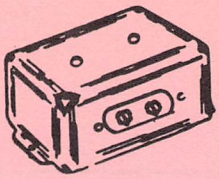
Part No.	Fig.	Description	Mtg.	Dimensions
				W. x D.
24-8274	EA	4 pole 2 position Band Switch.	3/8 hole	3/4 x 1 5/8
24-8273	EC	3 section 3 pole 3 position Band Switch.	3/8 hole	1 5/8 x 4 1/2



EC

Schematics listed in back of catalog.

Wave Trap Filters



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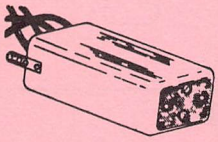

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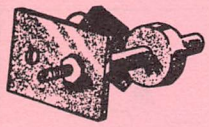

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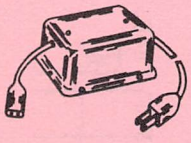
SU



LF

CF

TV, F. M. and Shortwave Wave Traps

Attenuate interfering signals with these new, highly efficient tunable wave traps. Several may be connected in series if interference exists on more than one frequency. Efficient with any balanced or unbalanced line from 50 to 500 ohms impedance.

Part No.	Fig.	Schematic No.	Attenuation Range	Mtg.	Dimensions H	Dimensions W x D
15-7510	SL	72	6 to 13 MC	3 7/16	1 3/4	2 x 3
15-7511	SL	72	13 to 27 MC	3 7/16	1 3/4	2 x 3
15-7512	SL	72	27 to 54 MC	3 7/16	1 3/4	2 x 3
15-7513	SL	72	54 to 108 MC	3 7/16	1 3/4	2 x 3
15-7514	SL	73	108 to 216 MC	3 7/16	1 3/4	2 x 3
15-7513A *	SL	101	54 to 108 MC	3 7/16	1 3/4	2 x 3

* Consists of a parallel and a series trap. Will provide a better match and greater attenuation in some types of TV Receivers.

We make the following recommendations for elimination of undesirable television reception interference:

For interference arising from TV channels 2 to 6 inclusive install . . . . . 15-7513 or 15-7513A
For interference arising from TV channels 7 to 13 inclusive install 15-7514
For interference arising from 40 meter band, install 15-7510
For interference arising from 20 to 15 meter band; install 15-7511
For interference arising from 10 and 6 meter band, install. 15-7512
For interference arising from taxis, Hi-Frequency police, install 15-7514
For interference arising from FM stations, install . . . . . 15-7513 or 15-7513A

I.F. and Broadcast Band Wave Traps

Designed to eliminate interference caused by strong broadcast stations, image frequencies, and long-wave transmitters. Fully shielded and moisture protected. Instructions furnished for use either as rejector or by-pass. Mounting brackets are attached to the shield.

Part No.	Fig.	Schematic No.	Attenuation Range	Mtg.	Dimensions H	Dimensions W	Dimensions D
15-8479	MT	59	400 - 700 KC	1 1/2	2	1 1/2	1 1/2
15-8480	MT	59	650 - 1000 KC	1 1/2	2	1 1/2	1 1/2
15-8481	MT	59	950 - 1650 KC	1 1/2	2	1 1/2	1 1/2
15-2866	PB	5	456 KC	1/8 Hole	1 1/2	7/8	1 1/4
15-2888§	SU	110	265 KC	1 1/8	1 3/4	1 1/8	1 1/8

§ Sylvania 118-0009

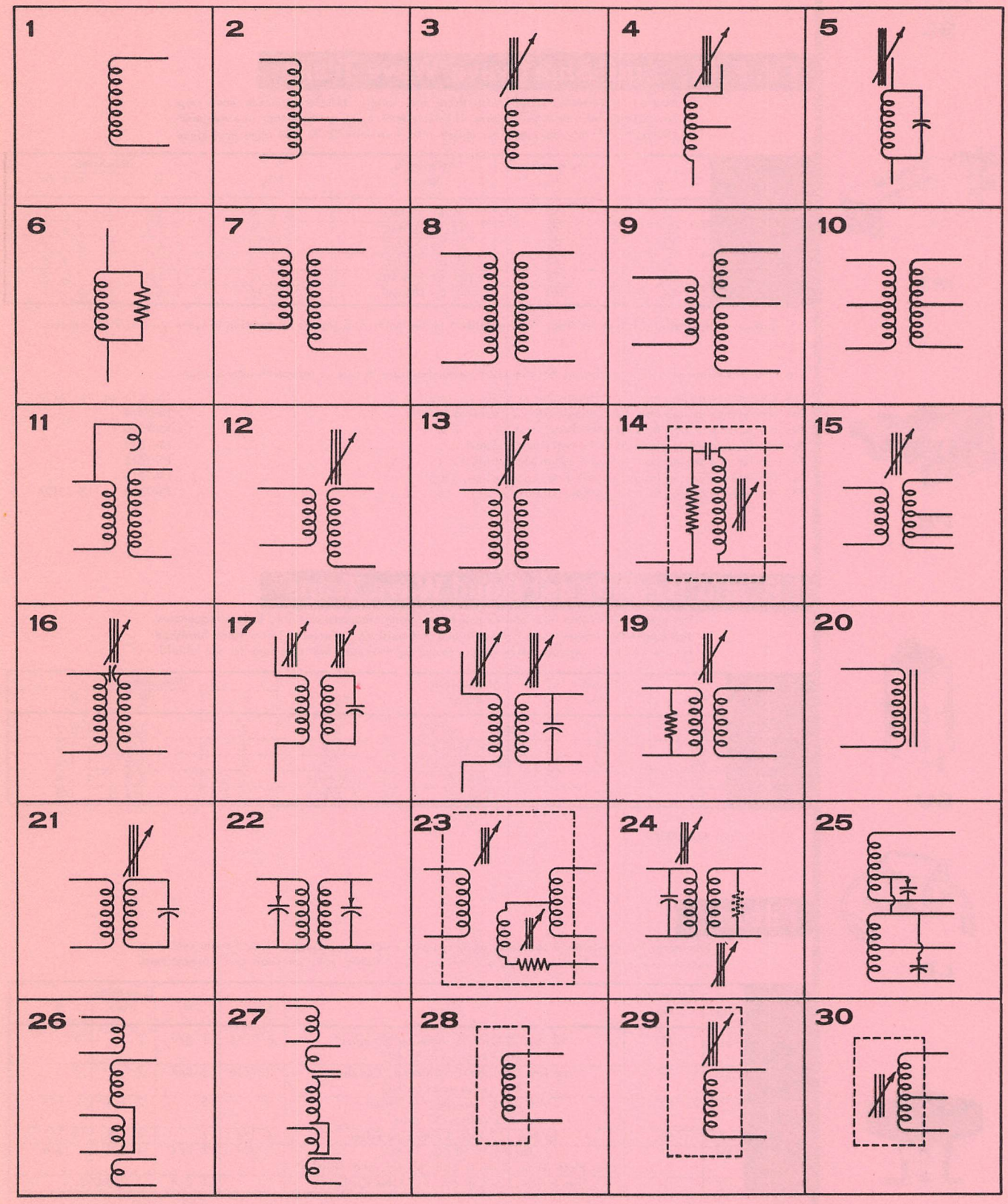
Filters

Eliminates TV interference caused by many types of electric and electronic equipment including vacuum sweepers, electric razors, oil burners, neon lights, etc. Insertion loss is almost zero.

Part No.	Fig.	Schematic No.	Use	Mtg.	Dimensions H	Dimensions W	Dimensions D
15-1072	SL	75	Hi Pass 72 Ohm TV Antenna "Coupler" Attenuates up to 50 MC	3 7/16	1 3/4	2	3
15-1003	SL	74	Hi Pass 300 Ohm TV Antenna "Coupler" Attenuates up to 50 MC	3 7/16	1 3/4	2	3
15-7813	LF	52	AC - DC Interference Filter - 115 Volts - 220 Volts		5	2 1/4	2 1/4
15-7515	LF	68	Lo Pass 115 Volt 3 Amp Line Filter	4 1/4	2	3 1/8	4 1/2
15-7520	MT	67	Band Stop 10 KC, 75 MA, For Plate Audio Outputs with "Squeals and Whistles"	1 3/4	2 3/4	1 3/4	1 3/4
19-7825	CF	1	Line Filter .6 MH @ 2 A., .7 Ohm Choke		1 3/4	1 7/8 Dia.	

Schematics listed at the end of the Pink Section.

Schematics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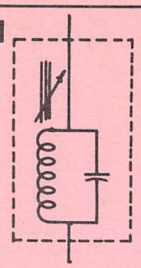
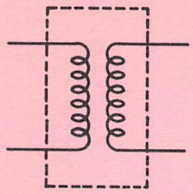
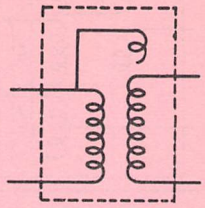
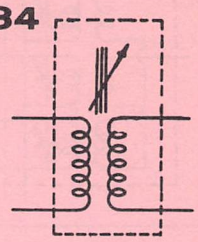
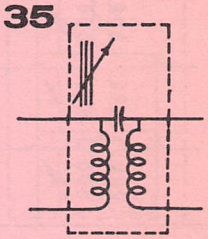
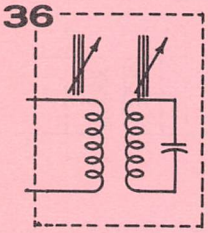
31 

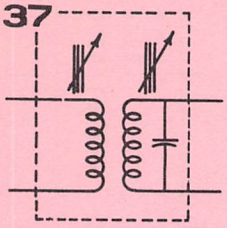
32 

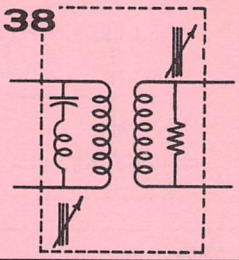
33 

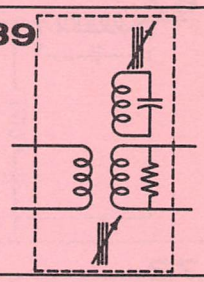
34 

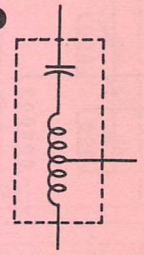
35 

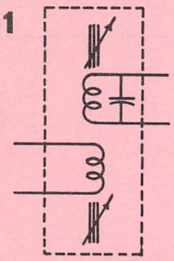
36 

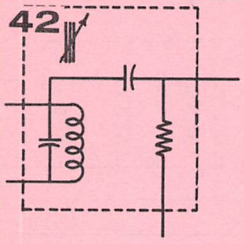
37 

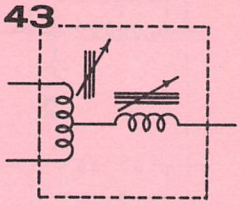
38 

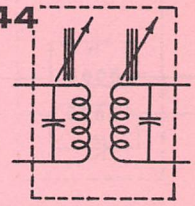
39 

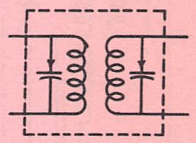
40 

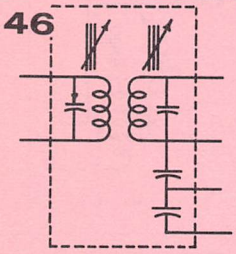
41 

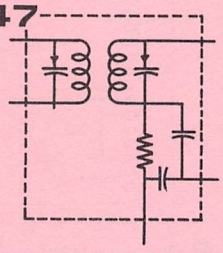
42 

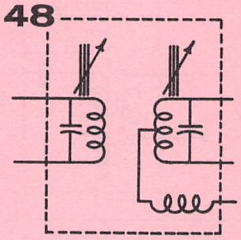
43 

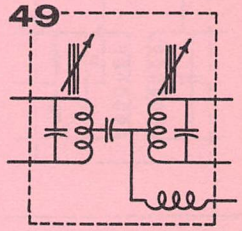
44 

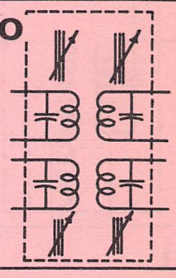
45 

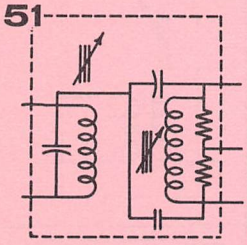
46 

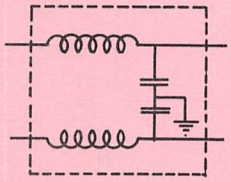
47 

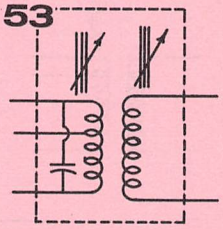
48 

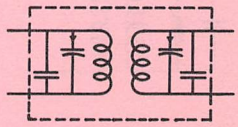
49 

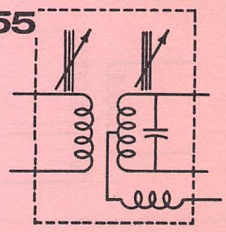
50 

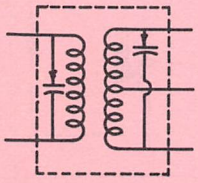
51 

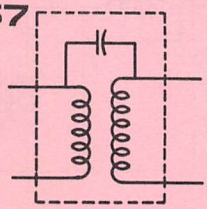
52 

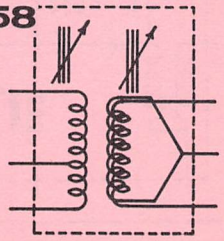
53 

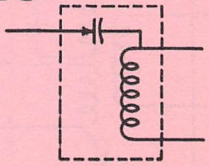
54 

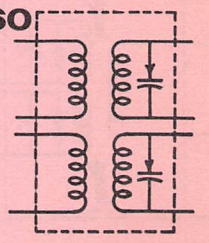
55 

56 

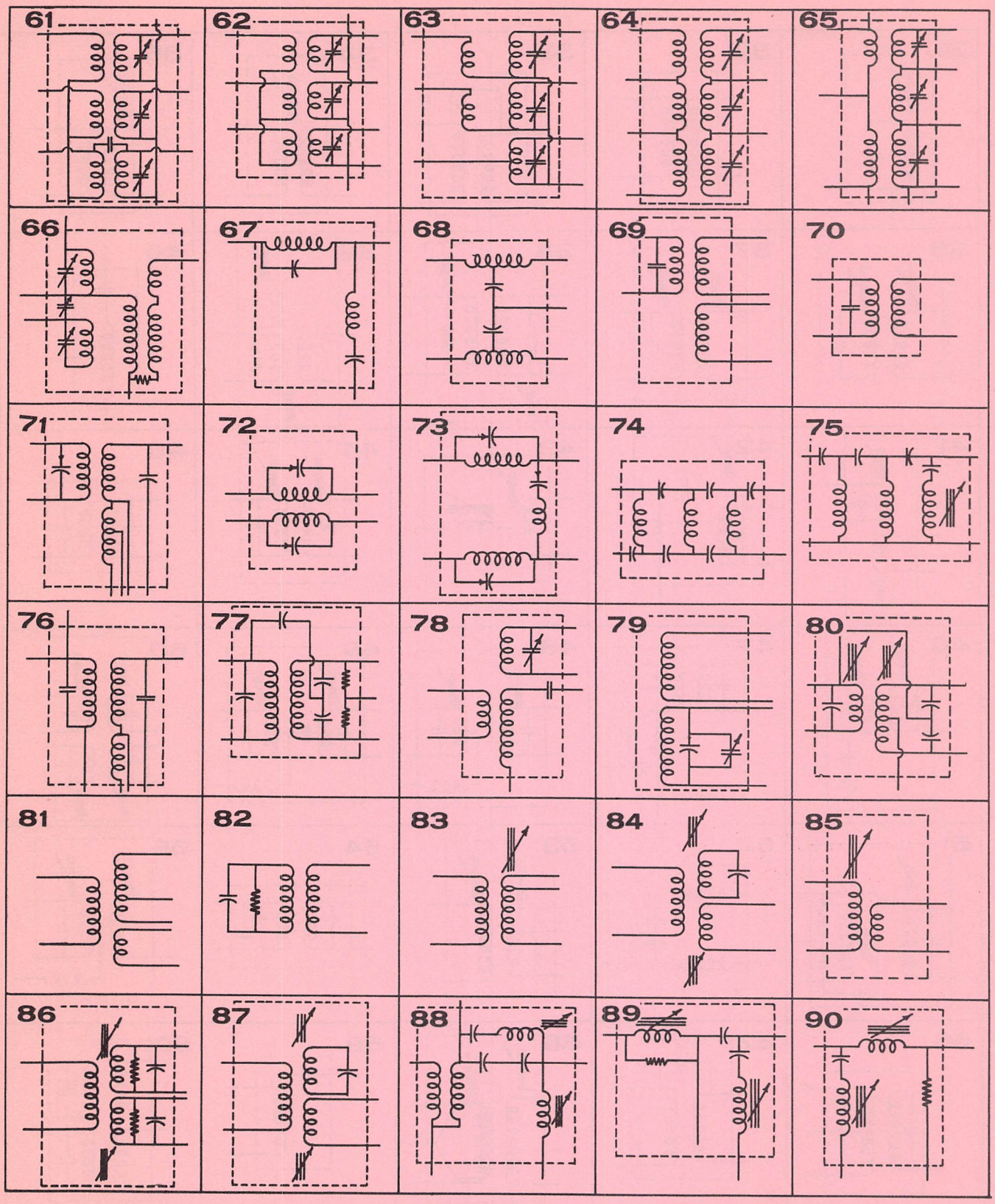
57 

58 

59 

60 

Schematics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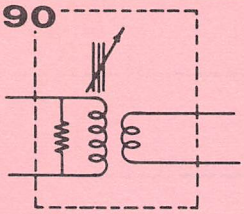

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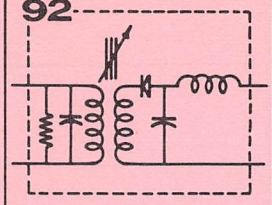

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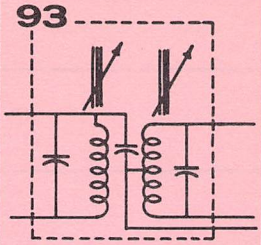

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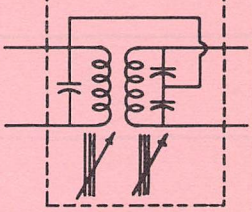

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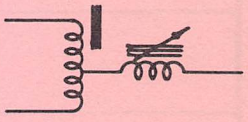

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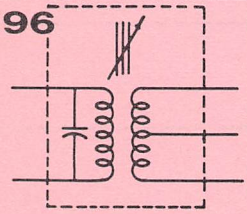

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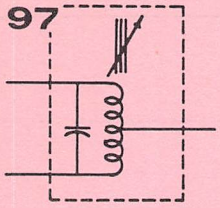

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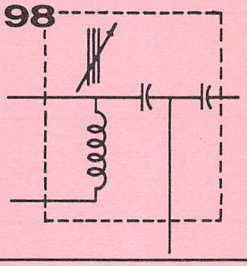

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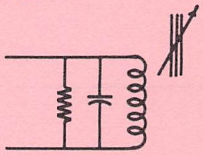

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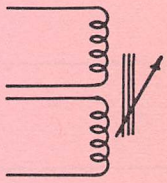

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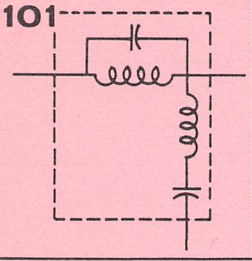

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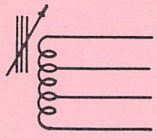

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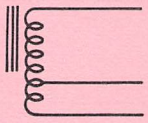

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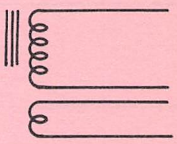

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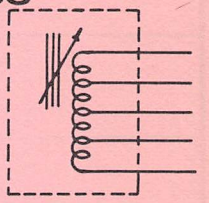

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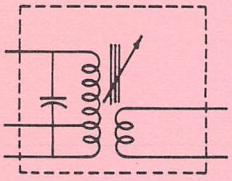

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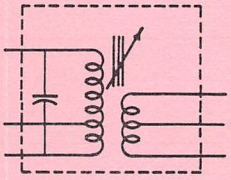

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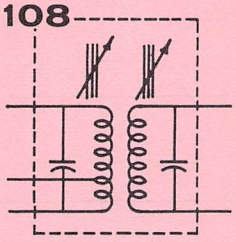

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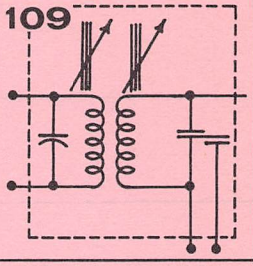

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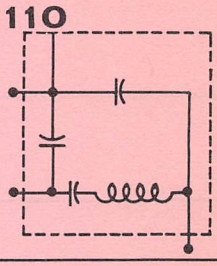

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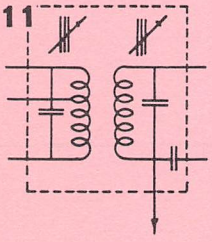

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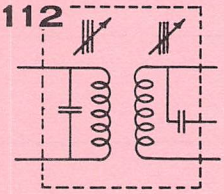

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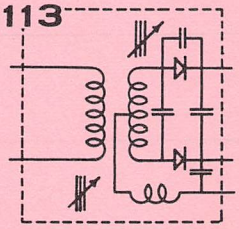

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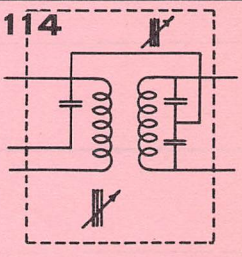

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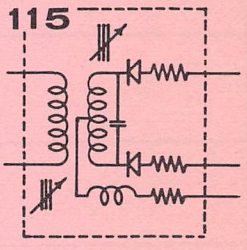

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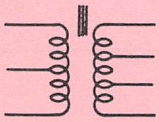

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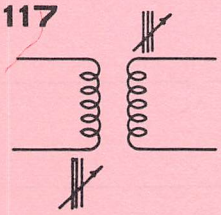


NOTES

GENERAL CONTROLLER INFORMATION

Staley Time Cycle Controllers automatically control and program machinery and processes in every single phase of manufacturing. The total cycle time of these rugged units is available from as long as a week down to the merest fraction of a second. With the simplest of tools, the "on-off" period can be adjusted from 2% to 98% of the total cycle time, thus making the Staley Controllers adaptable to virtually every industrial application.

Staley Controllers are rugged, self-contained units, assembled from standard interchangeable component parts. The complete reliability of Staley Controllers is proven thousands of times daily by the manufacturers and users of machine tools, chemicals, steel and steel products, hoppers, rubber and plastic products, conveyor systems, liquid level control devices, automatic shut-off devices, food processing equipment, loading and packaging equipment, computors, aerospace products, and other such equipment, who consistently demand Staley Controllers for their exacting applications.

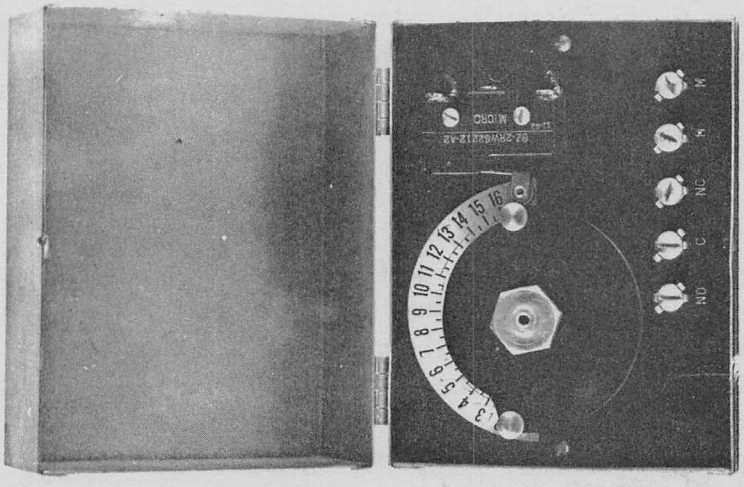
These dependable units automatically control the operation of motors, valves, solenoids, presses, drills, cranes, hoists, cylinders, lights, blowers, conveyors, pumps, lathes, shears, and any other type of equipment or process as well. Any desired number of circuits can be automatically controlled on a continuous, repeating or recycling basis, completely eliminating the need for a series of time delay mechanisms or other complex electrical devices. These units will control any machine, program, or process, quite simply, reliably, and with an extremely high degree of accuracy.

The many users of Staley Time Cycle Controllers are assured of years of dependable, trouble-free operation from units which will reduce their operating costs, save on labor costs, improve accuracy and uniformity of jobs performed, increase plant production, and guarantee them better quality control. The resulting lowered overhead and more efficient operation derived from the use of Staley Controllers will substantially increase the user's profits.

Detailed information and specifications concerning stock controllers are listed on the following pages. THERE IS A STALEY TIME CYCLE CONTROLLER AND PROGRAMMER FOR YOUR EVERY NEED..... standard units, plus specially designed models for any customer's particular application. Convenient application sheets are available on the last page of the catalog. Write, wire, or phone for full particulars and the name of your nearest Staley distributor.

MODEL 101

The Staley Model 101 is widely used by manufacturers to control single circuit processes where frequent changing of timing is required.



BASIC FEATURES:

"On-off" time changed instantly without the use of tools by patented slip-action cam. Timing changed by simply holding one pointer at zero degrees and moving the other to required position. Dial calibrated in degrees for close, accurate timing.

Cam driven directly from high torque, fully enclosed motor and gear train which are lifetime lubricated. 2-way clutch prevents damage to gears while resetting.

Heavy duty enclosed type snap action SPDT switch is rated 15 Amps., 110/220/440 VAC.

† Drive motor available 110/220/440 VAC, 25, 50 or 60 cycles. Motor speeds available 1, 2, 3, 4, or 5 RPM for cycle time of 60, 30, 20, 15 or 10 seconds. "On-off" time adjustable to 50% of total cycle time.

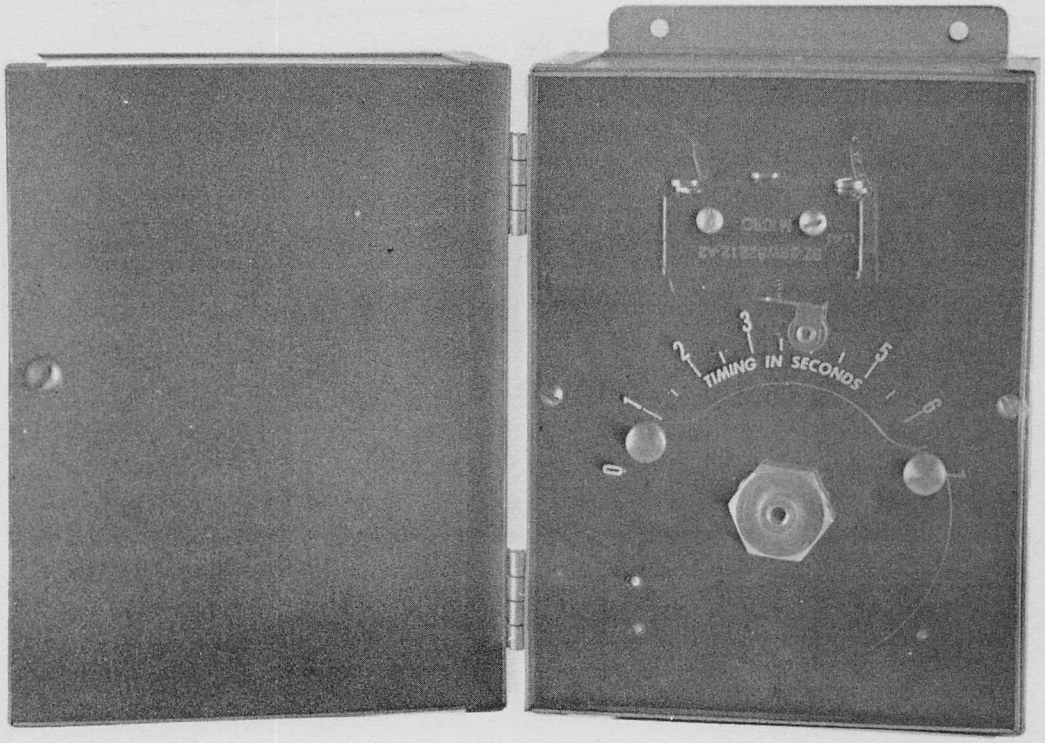
Enclosed in heavy gauge steel case finished in gray hammertone.

Dimensions: 5" x 6 1/2" x 4" High

† Extra charge of $1.00 for other than 110 VAC, 60 Cycles.

MODEL 101-1

The Staley Model 101-1 is a single circuit controller designed for automatic control of manufacturing processes or laboratory uses requiring frequent or periodic changing of timing. This dependable unit is ideally suited for controlling hoppers, the automatic feeding of livestock, life-testing of manufactured products, and any other single process operation.



BASIC FEATURES:

"On-off" time instantly changed by slipping clutch type cam. "On-off" time adjustable to 50% of total cycle time. Cam is driven directly from high torque motor. Uses a fully enclosed lifetime lubricated gear train. Heavy duty enclosed snap-action switch rated 15 Amp., 110/220/440 VAC.

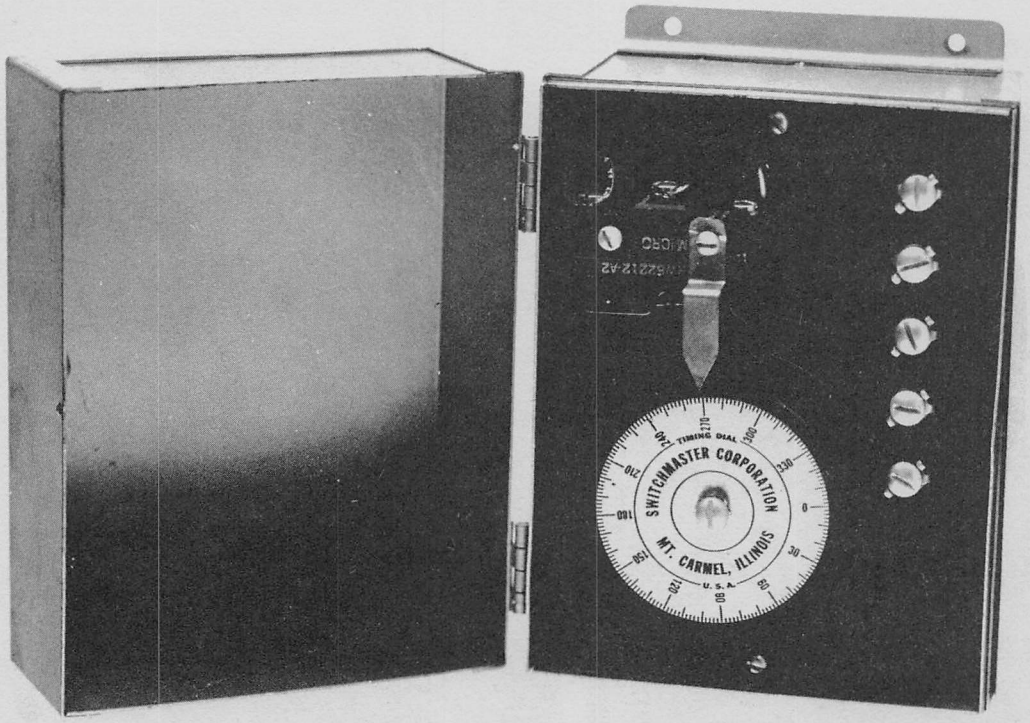
Motor available 110/220/440 VAC. Motor speeds available 1, 2, 3, 4, 5 RPM for cycle time of 60, 30, 20, 15 or 12 seconds. Timing dial on mounting panel calibrated in seconds for easy adjustment.

Enclosed in heavy gauge case finished in gray hammertone.

Dimensions: 5" x 6 1/2" x 4" High

MODEL 201

A compact unit for controlling any single circuit process which requires split-second timing and ease of adjustment.



BASIC FEATURES:

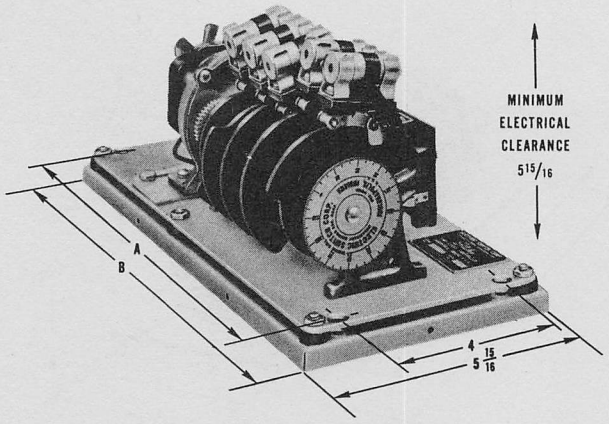
Timing easily accomplished by adjusting a split cam. "On" time adjustable from 2% to 98% of total cycle time. Heavy duty snap action switch rated 15 Amp., 110/220/440 VAC. Cam is driven directly from high torque syncronous motor. Gear train is lifetime lubricated.

Motor available from 100RPM to 1/168RPH for cycle time of .6 Sec. to 1 week. Enclosed in gray hammertone finished heavy gauge steel case.

Dimensions: 5" x 6 1/2" x 4" High

RECYCLING SEQUENCE TIMERS

The real workhorse of the Staley line, the versatile Model 200 will perform all required functions of a controller in about 80% of all applications.



MODEL 200

Staley Model 200 Controllers (formerly Model 602) have the following basic features: 1 to 30SPST circuits * Staley Metal Mercury Switch control contact elements rated 20, 12, 7 and 5 amperes, non-inductive at 125, 250, 440 and 550 volts AC, respectively * standard cycle times from 0.6 second to one hour * 110 volt, 60 cycle, 35 watt shaded-pole geared motor * 3-piece split single-lobe cams * circuit "on" or "off" times adjustable from 1 2/3% to 98 1/3% of total cycle time for 12-second and longer cycles — 3 1/3% to 96 2/3% for 3 to 12-second cycles * cam switching repeatability ± 1/2° for 12-second and longer cycles — ±5° for 0.6 second cycle * end-mounted timing dial * shock-absorbing base * horizontal surface mounting by four 1/4" screws. Optional equipment and accessories are described on Pages 231 through 235 Ordering instructions are shown on last page of catalog.

DIMENSION CHARTS

MODEL 200—without optional equipment or with either compound gear assembly or clutch

DIM.	Number of single pole single throw circuits												
	1-2	3-4	5-6	7-8	9-10	11-13	14-15	16-17	18-19	20-22	23-24	25-27	28-30
A	8 11/16	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16
B	9 1/2	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43

MODEL 200—with electromagnetic brake (compound gear assembly or clutch may be included)

DIM.	Number of single pole single throw circuits												
	1-2	3-4	5-7	8	9-11	12-13	14-15	16-17	18-20	21-22	23-25	26-28	29-30
A	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16	46 3/16
B	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43	47

MODEL 200—with electromagnetic brake, compound gear assembly and clutch

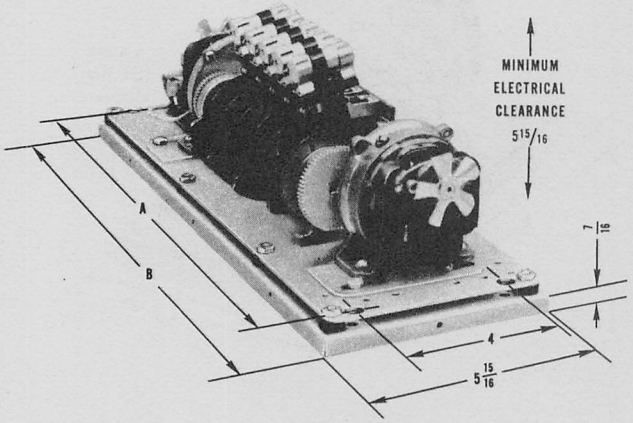
DIM.	Number of single pole single throw circuits												
	1	2-3	4-6	7	8-10	11-12	13-15	16-17	18-20	21	22-24	25-28	29-30
A	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16	46 3/16
B	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43	47

RECYCLING SEQUENCE TIMERS

Staley Model 635 Controllers are operated by two shaded-pole geared motors (110 volt, 60 cycle, 35 watt) having different speeds. The faster motor is coupled to the cam shaft through overriding clutches and provides for quick recycling. Automatic recycling may be accomplished with a switch on the controller itself.

MODEL 635

Basic features: 2 to 30SPST circuits * Staley Metal Mercury Switch control contact elements rated 20, 12, 7 and 5 amperes, non-inductive, at 125, 250, 440 and 550 volts AC, respectively * standard cycle times from 0.6 second to one hour * 3-piece split single-lobe cams * circuit "on" or "off" times adjustable from 1 2/3% to 98 1/3% of total cycle time for 12-second and longer cycles — 3 1/3% to 96 2/3% for 3 to 12-second cycles * cams switching repeatability ±1/2° for 12-second and longer cycles — ±5° for 0.6 second cycle * end-mounted timing dial * shock absorbing base * horizontal surface mounting by four 1/4" screws * Optional equipment and accessories are described on Pages 231 through 235 Ordering instructions are shown on last page of catalog.



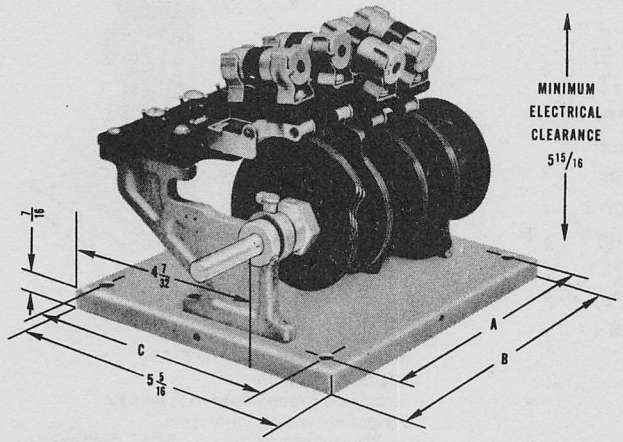
DIMENSION CHARTS

MODEL 635—without optional equipment or with compound gear assembly												
DIM.	Number of single pole single throw circuits											
	3-4	5-6	7-8	9-10	11-13	14	15-17	18-19	20-22	23-25	26-28	29-30
A	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16	46 3/16	50 3/16
B	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43	47	51

MODEL 635—with electromagnetic brake (compound gear assembly may be included)												
DIM.	Number of single pole single throw circuits											
	3-4	5-7	8	9-11	12-13	14-15	16-17	18-20	21-23	24-27	28-30	
A	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16	46 3/16	50 3/16	
B	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43	47	51	

DRUM CONTROLLERS

Staley Drum Controllers are used in applications where they are driven by an external power source furnished by the equipment being controlled.



Extended Shaft Dimensions
Diameter: 3/8 inch
Extension Beyond Base: 1¼ inches
Height above Bottom of Base:
2 3/16 inches for 1 to 7 SPST Switches
2¼ inches for 8 to 30 SPST Switches

MODEL 648

Basic features: 1 to 30SPST circuits * Staley Metal Mercury Switch control contact elements rated 20, 12, 7 and 5 amperes, non-inductive, at 125, 250, 440 and 550 volts AC, respectively * standard cycle times from 0.6 seconds to one hour * 110 volt, 60 cycle, 35 watt shaded-pole geared motor * 3-piece split single-lobe cams * circuit "on" or "off" times adjustable from 1 2/3% to 98 1/3% of total cycle time for 12-second and longer cycles—3 1/3% to 96 2/3% for 3 to 12-second cycles * cam switching repeatability ±1/2° for 12-second and longer cycles—±5° for 0.6 second cycle * end-mounted timing dial * rigid base for 1 through 7 circuits * shock absorbing base for 8 or more circuits * horizontal surface mounting by four 1/4" screws * Optional equipment and accessories are described on Pages 233 through 237. Ordering instructions are shown on the last page of catalog.

DIMENSION CHART

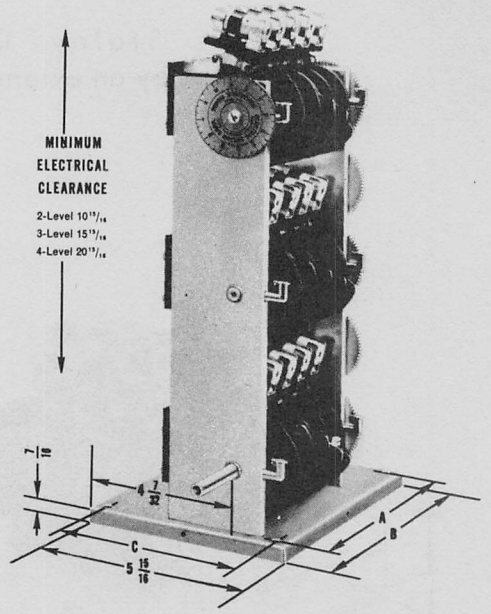
MODEL 648—without optional equipment												
DIM.	Number of single pole single throw circuits											
	1-4	5-7	8-9	10-12	13-14	15-16	17-18	19-21	22-23	24-25	26-28	29-30
A	5 15/16	8 11/16	12 11/16	15 63/64	18¼	21 35/64	23 13/16	26⅞	29⅜	32 7/16	34 15/16	38 3/16
B	6¾	9½	13½	16 51/64	19 1/16	22 23/64	24⅝	27 11/16	30 3/16	33¼	35¾	39
C	5⅛	5⅛	4	4	4	4	4	4	4	4	4	4

DRUM CONTROLLERS

The Staley Model 748 is designed for applications using an external power source where limited horizontal space requires vertical stacking of the cams.

MODEL 748

Basic features: 2 to 60SPST circuits arranged on 2, 3 or 4 levels * Staley Metal Mercury Switch control contact elements rated 20, 12, 7 and 5 amperes, non-inductive at 125, 250, 440 and 550 volts AC, respectively * standard cycle times from 0.6 second to one hour * 110 volt, 60 cycle, 35 watt shaded-pole geared motor * 3-piece split single-lobe cams * circuit "on" or "off" times adjustable from 1 2/3% to 98 1/3% of total cycle time for 12-second and longer cycles — 3 1/3% to 96 2/3% for 3 to 12-second cycles * cam switching repeatability ±1/2° for 12-second and longer cycles — ±5° for 0.6 second cycle * end-mounted timing dial * bases 11 15/32" long or shorter are rigid * bases longer than 11 15/32" are shock mounted * horizontal surface mounting by four 1/4" screws * Optional equipment and accessories are described on Pages 231 through 235 Ordering instructions are shown on the last page of catalog.



Extended Shaft Dimensions
Diameter: 3/8 inch
Extension Beyond Base: 1½ inches
Height above Bottom of Base:
2 3/16 inches from 1 to 7 SPST Switches per level
2½ for 8 or more SPST Switches per level

DIMENSION CHARTS

MODEL NO. 748—2-level arrangement

DIM.	Number of single pole single throw circuits												
	2-8	9-12	13-14	15-18	19-24	25-28	29-32	33-36	37-42	43-46	47-50	51-54	55-60
A	5 15/16	8 11/16	10 21/32	12 11/16	15 63/64	18¼	21 35/64	23 13/16	26⅞	29⅜	32 7/16	34 15/16	38 3/16
B	6¾	9½	11 15/32	13½	16 51/64	19 1/16	22 23/64	24⅝	27 11/16	30 3/16	33¼	35¾	39
C	5⅛	5⅛	5⅛	4	4	4	4	4	4	4	4	4	4

MODEL NO. 748—3-level arrangement

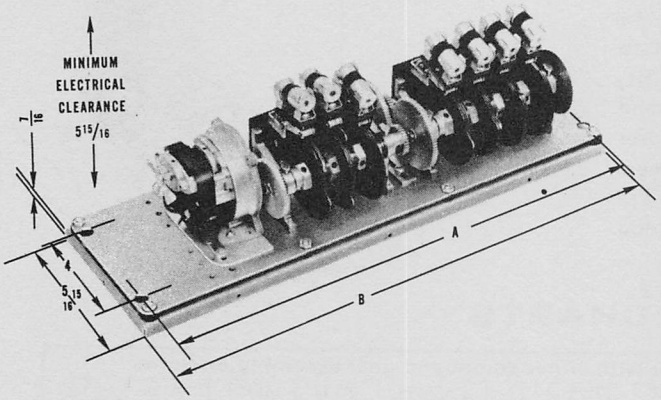
DIM.	Number of single pole single throw circuits								
	3-12	13-18	19-21	22-27	28-36	37-42	43-48	49-54	55-60
A	5 15/16	8 11/16	10 21/32	12 11/16	15 63/64	18¼	21 35/64	23 13/16	26⅞
B	6¾	9½	11 15/32	13½	16 51/64	19 1/16	22 23/64	24⅝	27 11/16
C	5⅛	5⅛	5⅛	4	4	4	4	4	4

MODEL NO. 748—4-level arrangement

DIM.	Number of single pole single throw circuits						
	4-16	17-24	25-28	29-36	37-48	49-56	57-60
A	5 15/16	8 11/16	10 21/32	12 11/16	15 63/64	18¼	21 35/64
B	6¾	9½	11 15/32	13½	16 51/64	19 1/16	22 23/64
C	5⅛	5⅛	5⅛	4	4	4	4

RECYCLING SEQUENCE TIMERS

The versatile Staley Model 802 is actually two controllers (or more) in one. It will automatically control two time cycles from one motor through the use of compound gear assemblies and two cam shafts.



MODEL 802

Basic features: 2 to 30SPST circuits arranged on two cam shafts having unequal cycle times * standard cycle times from 0.6 second to one hour on one shaft and up to 64 times as long on the other * 110 volt, 60 cycle, 35 watt shaded-pole geared motor * 3-piece split single-lobe cams * circuit "on" or "off" times adjustable from 1 2/3% to 98 1/3% of total cycle time for 12-second and longer cycles — 3 1/3% to 96 2/3% for 3 to 12-second cycles * cam switching repeatability ±1/2° for 12-second and longer cycles — ±5° for 0.6 second cycle * end-mounted timing dial * shock absorbing base * horizontal surface mounting by four 1/4" screws * Optional equipment and accessories are described on Page 231 through 235 Ordering instructions are shown on the last page of catalog.

DIMENSION CHARTS

MODEL 802—without optional equipment or with compound gear assembly or clutch												
DIM.	Number of single pole single throw circuits											
	2-3	4-6	7-8	9-10	11-12	13-15	16-17	18-19	20-22	23-24	25-28	29-30
A	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16	46 3/16
B	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43	47

MODEL 802—with electromagnetic brake (compound gear assembly or clutch may be included)												
DIM.	Number of single pole single throw circuits											
	2-4	5-6	7-8	9-10	11-13	14-15	16-17	18-20	21-22	23-26	27-29	30
A	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16	46 3/16	50 3/16
B	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43	47	51

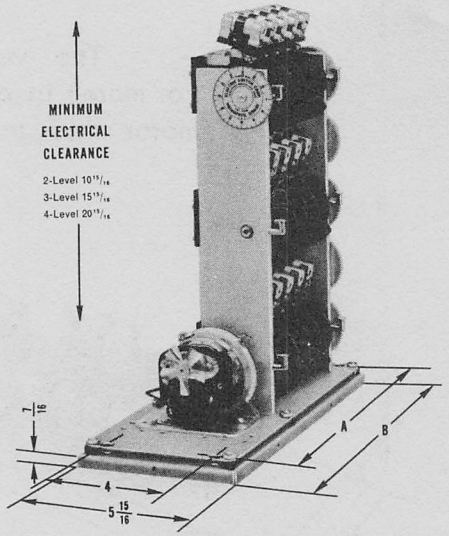
MODEL 802—with electromagnetic brake, compound gear assembly and clutch												
DIM.	Number of single pole single throw circuits											
	2-3	4-5	6-8	9	10-12	13-15	16-17	18-19	20-22	23-25	26-28	29-30
A	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16	46 3/16	50 3/16
B	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43	47	51

RECYCLING SEQUENCE TIMERS

The Staley Model 702 is designed for applications where limited horizontal space requires the vertical stacking of the cams.

MODEL 702

Basic features: 2 to 60SPST circuits arranged on 2, 3 or 4 levels * Staley mercury switches rated 20, 12, 7 and 5 amps non-inductive at 125, 250, 440 and 550 volts AC, respectively * standard cycle times from 0.6 second to one hour * 110 volt, 60 cycle, 35 watt shaded-pole geared motor * 3-piece split single lobe cams * circuit "on" or "off" times adjustable from 1 2/3% to 98 1/3% of total cycle time for 12-second and longer cycles — 3 1/3% to 96 2/3% for 3 to 12-second cycles * cam switching repeatability ±1/2° for 12-second and longer cycles — ±5° for 0.6 second cycle * end-mounted timing dial * shock absorbing base * horizontal surface mounting by four 1/4" screws * Optional equipment and accessories are described on Pages 231 through 235 Ordering instructions are shown on last page of catalog.



DIMENSION CHARTS

MODEL 702—2-level without optional equipment or with either compound gear assembly or clutch													
No. of SPST Circuits		2-4	5-8	9-12	13-16	17-20	21-26	27-28	29-34	35-38	39-44	45-48	49-54	55-60
DIM.	A	8 11/16	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16
	B	9 1/2	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43

MODEL 702—2-level with electromagnetic brake (compound gear assembly clutch may be included)													
No. of SPST Circuits		2-4	5-8	9-14	15-16	17-22	23-26	27-30	31-34	35-40	41-44	45-50	51-56	57-60
DIM.	A	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16	46 3/16
	B	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43	47

MODEL 702—2-level with electromagnetic brake, compound gear assembly and clutch														
No. of SPST Circuits		2	3-6	7-12	13-14	15-20	21-24	25-28	29-34	35-40	41-42	43-48	49-56	57-60
DIM.	A	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16	34 15/16	38 3/16	42 3/16	46 3/16
	B	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4	35 3/4	39	43	47

MODEL 702—3-level without optional equipment or with either compound gear assembly or clutch											
No. of SPST Circuits		3-6	7-12	13-18	19-24	25-30	31-39	40-42	43-51	52-57	58-60
DIM.	A	8 11/16	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16
	B	9 1/2	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4

MODEL 702—3-level with electromagnetic brake (compound gear assembly or clutch may be included)										
No. of SPST Circuits		3-6	7-12	13-21	22-24	25-33	34-39	40-45	46-51	52-60
DIM.	A	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16
	B	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4

MODEL 702—3-level with electromagnetic brake, compound gear assembly and clutch										
No. of SPST Circuits		3	4-9	10-18	19-21	22-30	31-36	37-42	43-51	52-60
DIM.	A	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8	32 7/16
	B	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16	33 1/4

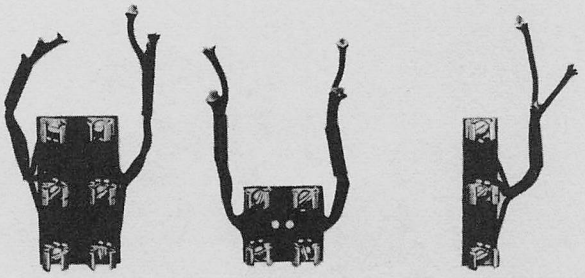
MODEL 702—4-level without optional equipment or with either compound gear assembly or clutch									
No. of SPST Circuits		4-8	9-16	17-24	25-32	33-40	41-52	53-56	57-60
DIM.	A	8 11/16	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8
	B	9 1/2	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16

MODEL 702—4-level with electromagnetic brake (compound gear assembly or clutch may be included)								
No. of SPST Circuits		4-8	9-16	17-28	29-32	33-44	45-52	53-60
DIM.	A	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8
	B	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16

MODEL 702—4-level with electromagnetic brake, compound gear assembly and clutch								
No. of SPST Circuits		4	5-12	13-24	25-28	29-40	41-48	49-56	57-60
DIM.	A	10 21/32	12 11/16	15 63/64	18 1/4	21 35/64	23 13/16	26 7/8	29 3/8
	B	11 15/32	13 1/2	16 51/64	19 1/16	22 23/64	24 5/8	27 11/16	30 3/16

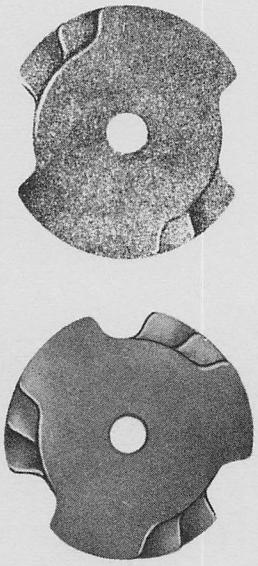
OPTIONAL EQUIPMENT

MULTIPLE-CONTACT ROCKER ASSEMBLIES



Function: to provide Single-Pole Double-Throw, Double-Pole Single-Throw, or Double-Pole Double-Throw switching arrangement for actuation by a single cam assembly.

Usage: standard operation is "break" before "make". A SPDT rocker assembly requires no more space than an SPST assembly. For controller dimensions when DPST or DPDT assemblies are required, consult the factory.



MULTIPLE-LOBE CAMS

Function: to provide more than one "make" and "break" per revolution of the camshaft.

Usage: recommended when a circuit is required to repeat a given "on" and "off" sequence two or more times during one complete controller cycle. Cams can be adjusted from equal "on" or "off" times to unequal times in varying proportions. The number of lobes possible depends on speed range over which the cams must operate. See table below for maximum number of lobes.

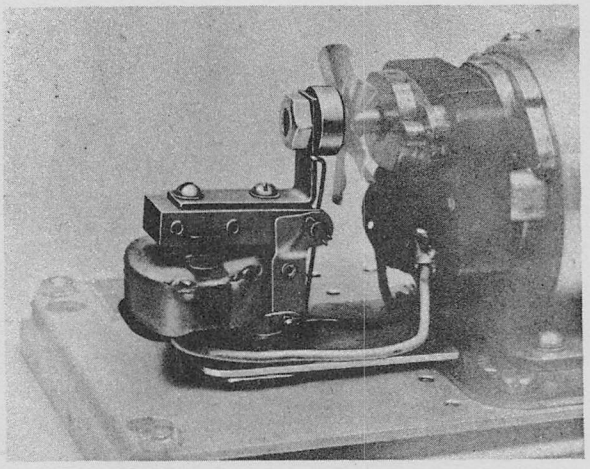
Camshaft Speed Range	Maximum Number of Lobes
0-5 RPM	10
5-20 RPM	10
20-40 RPM	9
40-60 RPM	6
60-100 RPM	3

SYNCHRONOUS MOTORS

Function: to provide a constant speed drive when exact timing is necessary.

Usage: available with ratings of either 110 or 220 volts, and either 60 or 50 cycles. (Controller dimensions will not be affected by use of a synchronous motor in place of the shaded pole motor normally furnished.)

OPTIONAL EQUIPMENT



ELECTROMAGNETIC BRAKE

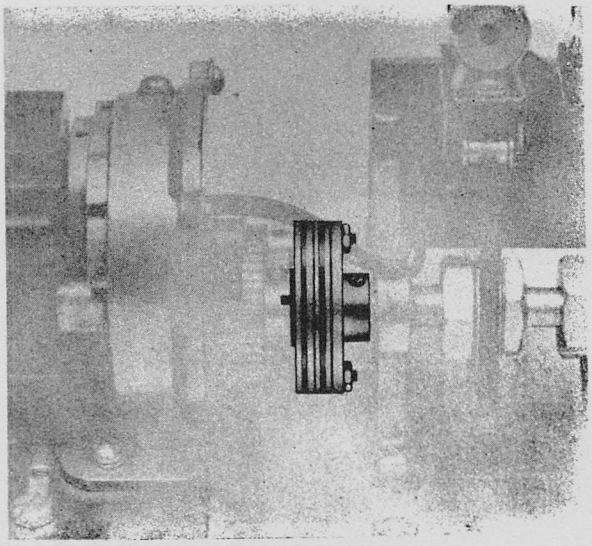
Function: to prevent coasting of the controller motor and cams after motor is de-energized.

Usage: recommended for use on non-continuously operating controllers when cycle time is shorter than 1/2 minute and for longer cycle times if timing is extremely critical. (See proper dimension chart for controller length.)

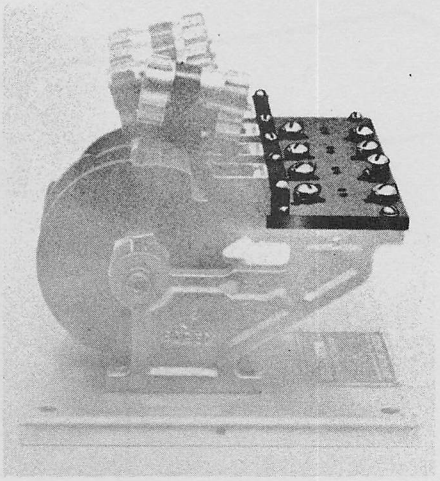
OVERRIDING CLUTCH

Function: to allow camshaft and entire program to be manually advanced to any position.

Usage: recommended for use when frequent manual resetting of the entire camshaft program is desired. See proper dimension chart for controller length.



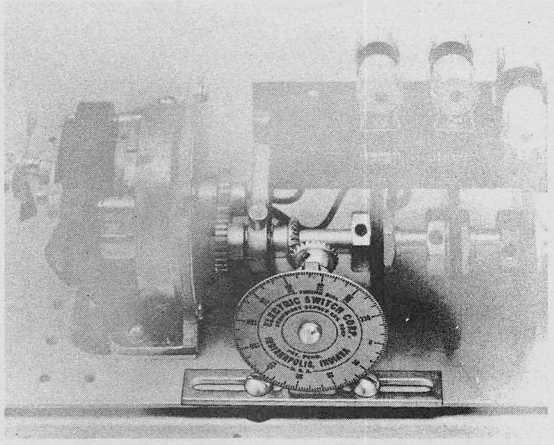
OPTIONAL EQUIPMENT



HORIZONTAL TERMINAL PANEL

Function: to provide convenient terminal connecting points when vertical terminal panel is not readily accessible from the back for wiring.

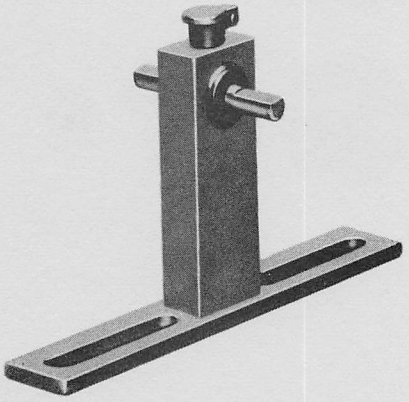
Usage: available for Model No. 200, 635, and 701 controllers. It is standard on Model No. 648. (Controller dimensions are not affected by use of the horizontal panel.)



FRONT - FACING TIMING DIAL

Function: for application where standard end-mounted dial is not readily visible due to location and/or size of controller.

Usage: available for Model No. 200, 635, 648, 701, 702 and 748 controllers. (To determine controller dimension using front-facing dial, allow one SPST switch space for the dial.



COMPOUND - GEAR SUPPORT ASSEMBLY

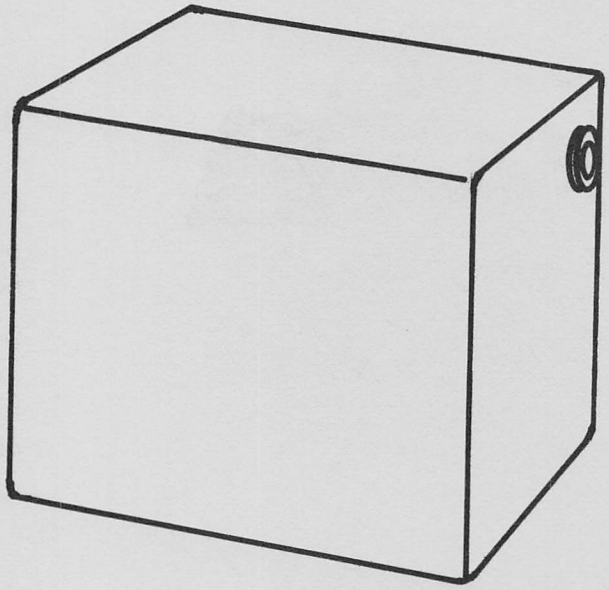
Function: to provide a wider range of cycle times through use of an additional set of change gears.

Usage: by use of a compound-gear support assembly between the motor shaft and cam shaft, a second stage of speed reduction is accomplished. Direct gearing allows a maximum cam shaft speed reduction (cycle time increase) of 8 to 1; compound gearing allows a maximum speed reduction of 64 to 1. (See proper dimension chart for controller dimensions.)

ACCESSORIES

GENERAL - PURPOSE ENCLOSURE

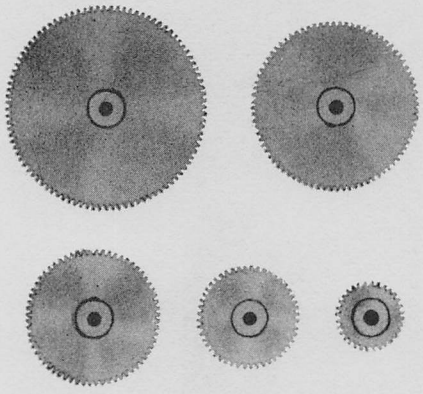
Function: to prevent accidental contact with the control apparatus and to protect against dust, light, and indirect splashing.



CHANGE GEARS

Function: to permit cycle times to be altered.

Usage: gears are available having the following number of teeth: 12, 16, 18, 20, 24, 28, 30, 32, 36, 40, 44, 48, 52, 56, 60, 64, 72, 80, 88 and 96. Slotted-hub gears for use with the overriding clutch are available having the following number of teeth: 32, 48, 64, 80, and 96. It is recommended that the camshaft always be geared equal to or down from the motor speed.



Optional Equipment and Availability Chart

DESCRIPTION	MODEL 200	MODEL 702	MODEL 802	MODEL 635	MODEL 648	MODEL 748
Electromagnetic Brake						
Overriding Clutch						
SPDT, DPST & DPDT Rocker Assemblies						
Multilobe Cams						
Synchronous Motors						
Front Facing Timing Dial						
Horizontal Terminal Panel						
Compound Gear Support						
General Purpose Enclosure						
Speed Change Gears						

Not Availiable

SPECIAL MODIFICATIONS

Special time cycle controllers are available which are designed for specific or unusual applications. Special features include: DC motors * Universal motors * Rheostat speed controlled universal motors (speed control over approximate range of 2 to 1) * Non-symmetrical, fixed program cams * Transformer for controller operation from 440 volt power source * Enclosures for special environmental conditions * Timing dials, oversize and/or with special markings * Relay for instantaneous start—long cycle—automatic stop controllers * Snap-action switch controller * Motors and gearing for non-standard cycle times * More circuits than furnished on standard controllers.

Special Controllers

ORDERING INSTRUCTIONS

When ordering standard controllers (without special equipment) please specify number and other information listed below:

MODEL	REQUIRED INFORMATION
200	Number of circuits (SPST); cycle time
635	Number of circuits (SPST); both cycle times
702	Total number of circuits (SPST); number of levels; cycle time
802	Number of circuits (SPST) per stage; cycle time per stage
648	Number of circuits (SPST); maximum cam speed (5, 20, 40, 60, or 100 RPM)
748	Total number of circuits (SPST); number of levels; maximum cam speed (5, 20, 40, 60, or 100 RPM)

For custom ordering, please specify above model information plus the optional equipment desired; or, provide us with your specific timing problems and we will suggest the proper equipment to be used.

Examples of Standard Order:

(1) Staley controller Model 200; 18 circuits; 12-second cycle.
(2) Staley controller Model 702; 32 circuits; 4 levels; 10-minute cycle.

Examples of Custom Order:

(1) Staley controller Model 635, 8 circuits; 5-second cycle and 1-minute cycle; electromagnetic brake on fast motor; horizontal terminal panel.
(2) Staley controller Model 648; 8 SPST and 3 SPDT circuits; 40 RPM cams.

Mercury Switches

for modern reliable control of electrical circuits ... use Staley Mercury Switches

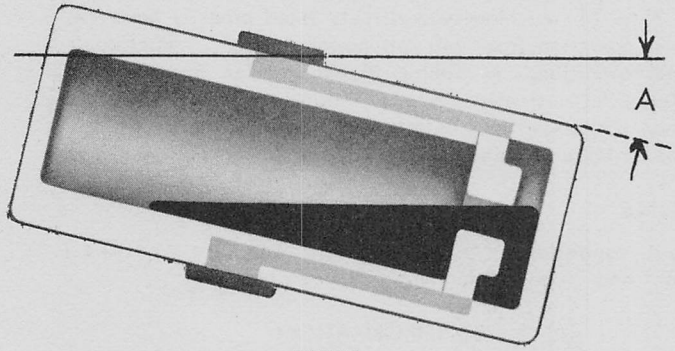
Staley Metal-Case Mercury Switches provide a modern and vastly superior method of electrical circuit control for all types of applications. True mercury-to-mercury contact during "make" and "break" eliminates pitting, burning, wear and erosion commonly encountered within mechanical switches and electrode type mercury switches.

Mercury Switches are used by manufacturers of machine tools and by users of automic controller conveyor systems. They are used to operate motors, valves, solenoids, presses, drills, cranes, hoists, cylinders, lights, blowers, conveyors, pumps, lathes, and shears. They are used by manufacturers of electric power tools, sewage disposal systems, liquid level control devices, sump pumps, food processing equipment, and fire alarm systems. They are used in many industries for "on-off" control of labor-saving machinery. Many uses can be found in equipment and systems requiring maximum dependability in electric switching.

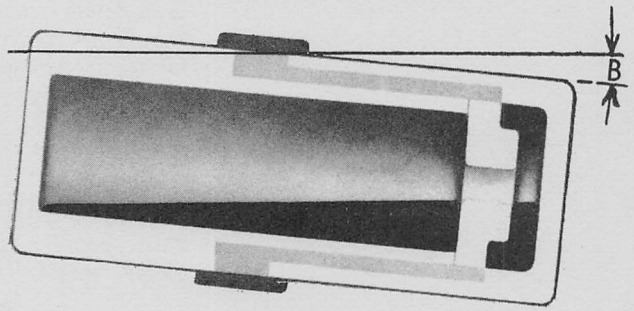
Staley Switches have been turned "on" and "off" millions of times with never a failure. They are virtually unbreakable and will withstand severe shocks, jars, vibrations, careless handling — even deliberate abuse. The Staley patented design consists of an Armco steel body, Armco steel cap, lifetime bushing, ceramic breaker, and mercury. It is the result of twenty years of research, development and experience.

During assembly, all air is pumped out of the switch, it is pressurized with gas — then assembled and sealed. When the switch is turned on, the deionized arc which occurs between the two pools of mercury, does not harm the switch — a fact which accounts for its long life and dependability.

Users of Staley Metal-Case Mercury Switches are assured of the safest, most modern, reliable and dependable electric switching devices available from any source. The extremely long life of these rugged units eliminates costly "down time" and expensive replacements. There is a Staley Metal Case Mercury Switch for your every need. Please call, wire or write for personalized attention and the name of your nearest Staley distributor.



MAKE



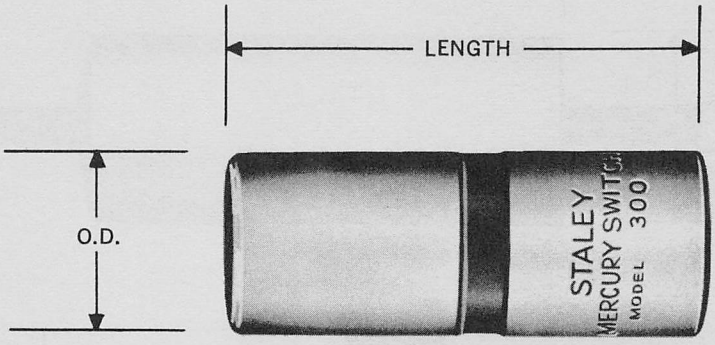
BREAK

Operation—When the cap end of the Staley Metallic Mercury Switch is lowered, the two pools of mercury contact at the refractory breaker, completing the circuit through the switch body and cap. When the cap end is raised, the mercury breaks at the refractory breaker, opening the circuit. The patented refractory breaker is supported by a resilient bushing, to protect it from the destructive effects of the arc and to insure positive mercury-to-mercury contact. This construction is responsible for the most effective arc quench known, and for the ability of the switch to be rotated through 180° without spillover. In addition, it provides a sharp, clean, instantaneous "make" and "break," insuring control so necessary in many types of automatic control operations.

STALEY METAL MERCURY SWITCHES

meet every installation requirement

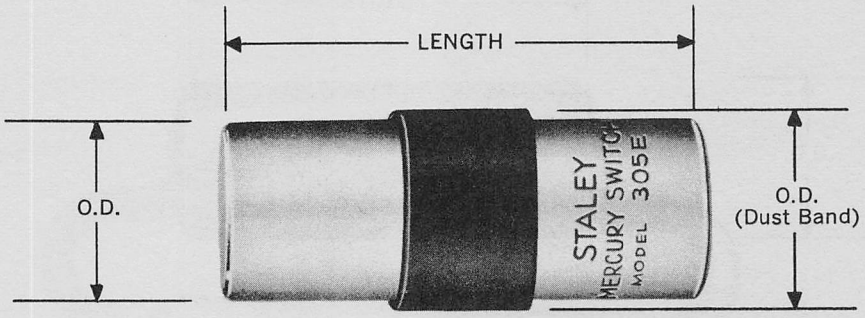
Mercury Switches



SERIES 300

Switch Model No.	Dimensions		Non-Inductive Rating		Motor Rating	Minimum Make & Break Angles	
	O.D.	Length	Volts	Amps	HP	Make (A)	Break (B)
305	0.525	1.330	125 250 440 550	5 5 3 2	⅓	5¼°	2½°

Non-insulated-clip or bracket-mounted mercury switch for applications protected from accumulating dust and oil. Electrical connections are made directly to the clips or bands.

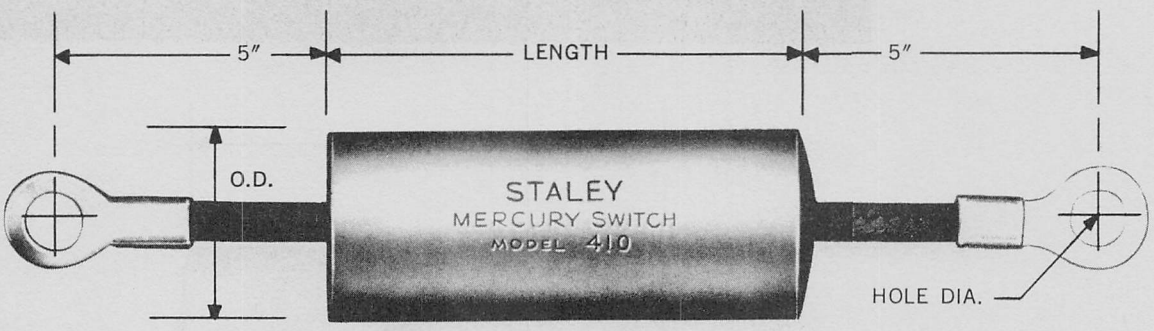


SERIES 300E

Switch Model No.	Dimensions			Non-Inductive Rating		Motor Rating	Minimum Make & Break Angles	
	Mounting O.D.	Length	Dust Band O.D.	Volts	Amps	HP	Make (A)	Break (B)
305E	0.525	1.330	0.575	125 250 440 550	5 5 3 2	⅓	5¼°	2½°
310E	0.525	1.400	0.575	125 250 440 550	10 7 4 3	1	5°	2°
315E	0.650	1.570	0.700	125 250 440 550	20 12 7 5	2	6°	3°

Non-insulated-clip or bracket-mounted mercury switch with dust band for preventing external arcing due to accumulation of dust and oil on applications where switches are not fully protected. Electrical connections are made directly to the clips or bands.

Mercury Switches

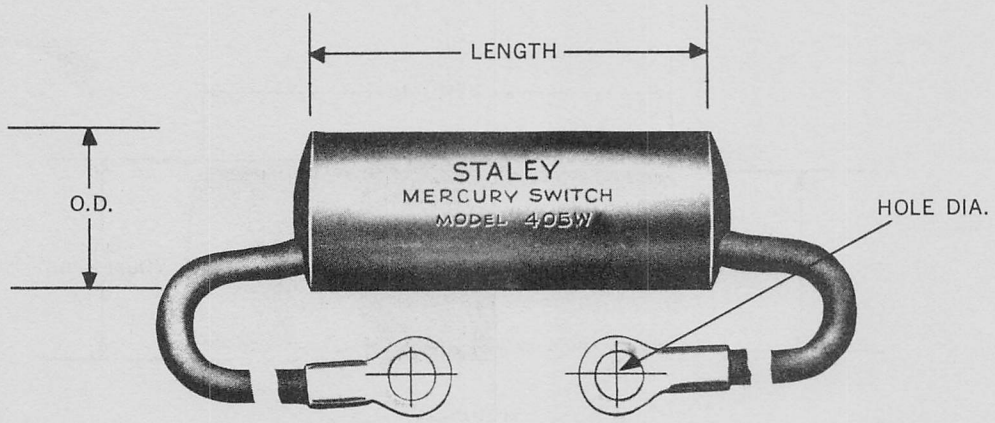


SERIES 400

Insulated mercury switch equipped with integral lead extension and terminals. Switch can be clip or band-mounted for rapid installation.

Switch Model No.	*Dimensions			Non-Inductive Rating		Motor Rating	Minimum Make & Break Angles	
	O.D.	Length	Hole Dia.	Volts	Amps	HP	Make (A)	Break (B)
405	0.575	1.440	0.190	125 250 440 550	5 5 3 2	⅓	5¼°	2½°
410	0.575	1.510	0.190	125 250 440 550	10 7 4 3	1	5°	2°
415	0.700	1.680	0.190	125 250 440 550	20 12 7 5	2	6°	3°

* Series 400 mercury switches normally furnished with lead lengths of 5 inches on both ends of switch. See price list for special lead lengths, or special modifications.

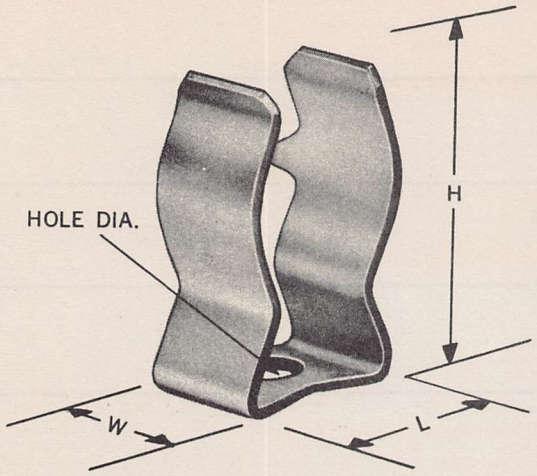


SERIES 400W

Moistureproof mercury switch, completely sealed. Equipped with integral lead extensions and terminals, it can be clip or band-mounted.

Switch Model No.	*Dimensions			Non-Inductive Rating		Motor Rating	Minimum Make & Break Angles	
	O.D.	Length	Hole Dia.	Volts	Amps	HP	Make (A)	Break (B)
405W	0.575	1.440	0.190	125 250 440 550	5 5 3 2	⅓	5¼°	2½°
410W	0.625	1.510	0.190	125 250 440 550	10 7 4 3	1	5°	2°
415W	0.730	1.680	0.190	125 250 440 550	20 12 7 5	2	6°	3°

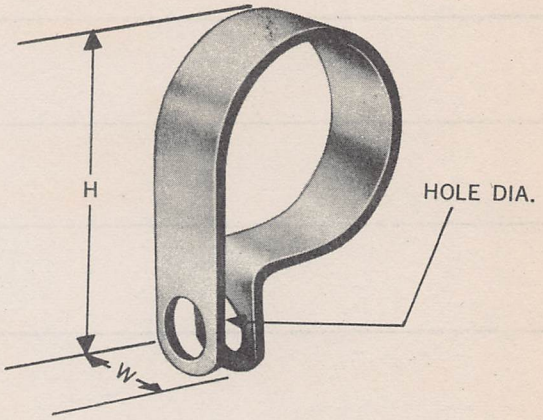
* Series 400W moistureproof switches normally furnished with lead length of 5 inches on both ends of switch. See price list for special lead lengths, or special modifications.



MOUNTING CLIPS

Switch Model No.	Clip Stock No.	W	L	H	Hole Dia.
305 305E 310 310E	60924	0.375	0.625	0.810	0.190
315 315E	60936	0.375	0.625	0.906	0.190
405 405W 410 410W	60941	0.375	0.625	0.810	0.190
415 415W	60942	0.375	0.625	0.906	0.190

Clip mountings are preferred for Staley Mercury Switches when machines are assembled on straight line production, and when it is desirable to install the switch after the machine is completed. Clip mountings are also used for installations which require the switch to be removed or reversed from make to break, and on installations where several mercury switches are mounted parallel to each other, as on Staley Time Cycle Controllers.



MOUNTING BANDS

Switch Model No.	Band Stock No.	W	Over-all H	Hole Dia.
305 305E 310 310E	60937	0.312	0.940	0.203
315 315E	60939	0.312	1.066	0.203
405 405W 410 410W	60956	0.312	0.996	0.203
415 415W	60958	0.312	1.121	0.203

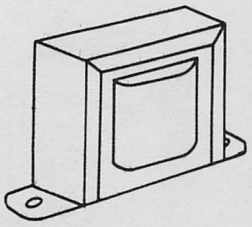
Band mountings are used where Staley Mercury Switches are not to be removed, or where items, on which they are installed, are made complete on straight line production. Band mountings should be used where switches are not to be changed or reversed. Elsewhere, clip mounting is preferred. Connections to both clips and bands should be made with extra flexible wire.

HOW TO MOUNT STALEY SWITCHES

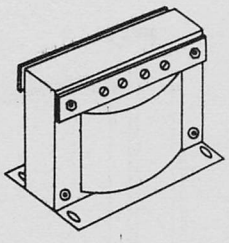
Series 300 and 300E—non-insulated switches are designed to be mounted with clips or bands on an insulated panel. This panel can be attached to a moving part of the device, or it can be mounted to be tilted by the device through the required minimum angle to "make" and "break" the circuit. Circuit connections are made directly to the clips or brackets used to mount the switch. Clip mountings are preferred because of the ease of switch installation, or when it is desirable to install the switch after the machine is completed. Clip mountings are also used for installations which require the switch to be readily removable, or to be reversed to change the switch from a normally open to a normally closed condition.

Series 400 and 400W—insulated switches are designed to be mounted with clips or bands, directly to a moving device. They may be so mounted to be tilted by the device through the required minimum angle to "make" and "break" the circuit. These switches incorporate integral leads for making necessary circuit connections.

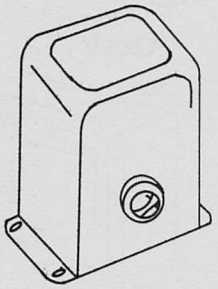
NOTES



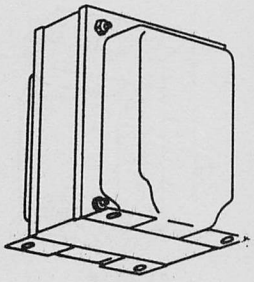
BAH



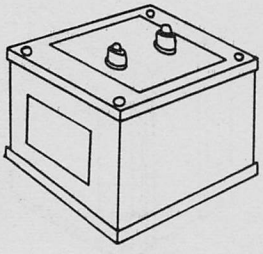
CTH



TMV



GGV



KAV

Isolation Control 1:1:1:1 Multi-purpose

This series has four isolated windings with seven possible combinations: for step-up, step-down, and isolation applications in industrial, home or laboratory use. They are particularly well adapted to 220-volt line step-down to provide 115-volt power source to operate machine tools and other automated equipment.

Part No.	VA Output	Primary Voltage	Secondary Voltage	✪ Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
23V34	50	115/230	115/230	CTH	2 1/2 x 2 1/8	2 5/8	3	2 1/2	2.75
23V35	100	115/230	115/230	CTH	3 1/8 x 2 1/8	3 1/4	3 3/4	2 7/8	5
23V36	200	115/230	115/230	CTH	3 3/4 x 2 3/4	2 7/8	4 1/2	3 5/8	9
23V37	300	115/230	115/230	CTH	4 1/8 x 2 7/8	4 1/8	4 7/8	3 3/4	11
23V38	500	115/230	115/230	CTH	4 1/8 x 4 1/8	4 1/8	4 7/8	5	17
27V21	670	115/230	115/230	CTH‡	5 5/16 x 4 1/4	5 1/2	6 1/2	5 3/4	21
23V39	1,000	115/230	115/230	CTH	5 3/8 x 4 1/2	5 3/8	6 3/8	5 1/2	23
23V197	2,500	115/230	115/230	CTH	8 x 4 1/2	7 5/8	9	5 1/2	40

Isolation Transformers

Isolation control transformers provide 115 Volts power or lighting within machine tools or other automated equipment from various line voltages from 115 Volts to 600 Volts. They also permit direct grounded lighting systems or control circuits independent of power distribution grounds for greater operator safety.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
25V22	15	440	115	KAV	6 3/8 x 2 9/16 to 3 1/8	4 5/32	7 1/8	4 11/16	2
23V195	20	440	110	BAH	2 13/16	2	3 3/16	2 1/8	1
27V47	25	115	115	GA†	1 3/4 x 2 1/8	3 13/16	2 3/8	2 3/4	2.5
27V20	25	440	220	TSV	1 3/4 x 2 11/16	3 5/16	2 1/2	3	2
23V17	35	115	115	BAH	3 1/8	2 1/4	3 13/16	2 1/4	1.75
23V86	40	110-120	110-120	GMV	2 x 1 7/8	3 1/8	2 5/8	3 1/8	4
27V54	40	115 400 Cycle	115	EA	1 3/8 x 1 1/4	2 3/4	1 13/16	1 15/16	1.5
23V80	40	115/230	115	BAH	3 1/8	2 1/4	3 13/16	2 1/2	1.75
23V45	50	115	115	GMV	2 1/2 x 1 15/16	3 7/8	3 1/4	3 1/4	4.25
25V16	50	105/115/125	115 or 125/115/105 With 115 V. Pri.	TMV*	2 3/4 x 3 7/8	2 3/4	3 11/16	4 7/16	5
27V44	50	115/230	105/115/125	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	4.7
23V198	50	115/230/460	115	CTH	2 1/2 x 2 1/8	2 5/8	3	2 3/8	2.6
23V95	50	230/440	115	GGV	2 x 1 3/4	3 3/32	2 5/8	2 1/2	2.3
25V23	50	240/480	120/240	KAV	6 3/8 x 2 9/16 to 3 1/8	4 5/32	7 1/8	4 11/16	2.75
25V24	50	550/600	110/220	KAV	6 3/8 x 2 9/16 to 3 1/8	4 5/32	7 1/8	4 11/16	2.5
23V18	80	115	115	GGV	2 1/2 x 2 5/16	3 7/8	3 3/16	3 1/2	5
27V55	80	115 400 Cycle	115	FA	1 11/16 x 1 7/16	3 1/8	2 1/16	2 5/16	2
23V48	100	115	115	GMV	3 x 2 7/16	4 3/4	3 7/8	3 1/2	6.5
23V25	100	105/115/125	115	GMV	2 3/4 x 3 1/16	4 1/4	3 1/2	3 7/8	6.2
23V87	100	110/120	110/120	GMV	2 1/2 x 2 3/8	3 7/8	3 3/4	3 1/4	6
25V17	100	105/115/125	115 or 125/115/105 With 115 V. Pri.	TMV*	2 1/2 x 4 3/4	5 5/16	4 9/16	5 1/4	8.5
23V128	100	210/230/250	115	GMV*	3 x 2 9/16	4 3/4	4	3 3/4	7.3
25V25	100	440	115	KAV	8 3/8 x 2 9/16 to 3 1/8	4 3/4	9 1/8	4 11/16	6
27V23	115	115	115	KB	3 x 2 7/16	4 5/16	3 3/8	3 15/16	6
27V48	115	115	115	KA†	3 x 2 7/16	5 1/4	3 3/8	3 15/16	8.5
27V45	125	115/230	105/115/125	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	8.5
23V69	150	115	67.5-115††	GGV	2 1/2 x 3	3 7/8	3 9/32	3 7/8	7
23V49	150	115	115	GMV	3 x 2 9/16	4 3/4	3 7/8	3 3/4	7
25V18	150	105/115/125	115 or 125/115/105 With 115 V. Pri.	TMV*	3 1/2 x 5 3/8	6 1/16	5 7/8	5 5/16	12.5
23V59	150	115	115/230	GGV	2 1/2 x 3	3 7/8	3 9/32	3 7/8	7
23V74	150	115/230	115	GGV	2 1/2 x 3	3 7/8	3 9/32	3 7/8	7
23V96	150	220/440	115	GGV	2 1/2 x 2 1/2	3 7/8	3 9/32	3 3/8	5.5
25V26	150	440	115	KAV	8 3/8 x 2 9/16 to 3 1/8	4 3/4	9 1/8	4 11/16	6
23V199	150	200/220/380/ 400/440/500/ 550	125	CAH	3 7/16 x 2 1/2	3 1/2	4 1/8	3	6
27V56	160	115 400 Cycle	115	GA	2 1/8 x 1 3/4	3 13/16	2 3/8	2 3/4	3.1

†† Split Winding
† Ultrashielded — epoxy potted with leads
* Complete with tap switch
‡ Encapsulated to meet MIL-T-27A

✪ 27 SERIES

CONTINUED NEXT PAGE

FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

Isolation Transformers

continued

Isolation control transformers provide 115 Volts power or lighting within machine tools or other automated equipment from various line voltages from 115 Volts to 600 Volts. They also permit direct grounded lighting systems or control circuits independent of power distribution grounds for greater operator safety.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Mtg. ✪ Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
25V20	175	115	115	TMV	2 1/2 x 4 3/4	5 5/16	5 1/4	4 9/16	9
23V33	185	115	115	GMV	2 3/4 x 3 11/16	4 1/4	3 1/2	4 3/4	7
23V58	250	115	115	GMV	3 x 3 9/16	4 3/4	3 7/8	5 3/4	12.5
23V126	250	115	125/115/105	GMV*	3 x 4 5/16	4 3/4	4	5 3/8	14.2
25V19	250	105/115/125	115 or 125/115/105 With 115 V. Pri.	TMV*	3 1/2 x 5 3/8	6 1/16	5 7/8	5 5/16	18.2
23V94	250	115/230	115	GGV	3 x 3 5/8	4 5/8	3 15/16	4 3/4	11
23V90	250	220	120	GMV	3 x 3 1/2	4 5/8	3 7/8	4 7/8	12
27V46	250	115/230	105/115/125	NB	4 1/16 x 3 5/16	5 1/2	4 5/16	5 1/16	17.2
23V129	250	210/230/250	115	GMV*	3 x 4 5/16	4 3/4	4	5 3/8	14.2
25V27	250	440	115	KAV	8 3/8 x 2 9/16 to 3 1/8	4 3/4	9 1/8	4 11/16	12
27V49	300	115	115	NB†	4 1/16 x 3 5/16	5 1/2	4 5/16	5 1/16	20
23V26	300	105/115/125	115	PUV	2 3/4 x 6 1/4	6	4 3/4	7 1/8	18
27V57	300	115 400 Cycle	115	JA	2 5/8 x 2 1/8	4 7/8	3 1/16	3 9/16	6.2
23V133	300	220/440	115	GGV	3 x 3 3/8	4 5/8	3 15/16	4 1/2	10.2
23V19	350	115	105/115/125	GMV	3 1/2 x 3 7/8	5 3/8	4 1/2	5 3/4	13
23V28	500	105/115/125	115	GMV	4 5/8 x 4 1/4	6 3/8	5 3/8	7 5/8	22
23V130	500	210/230/250	115	GMV*	4 5/8 x 4 1/4	7 3/4	5 5/8	7 1/2	29.5
27V58	500	115 400 Cycle	115	KA	3 x 2 7/16	5 1/4	3 3/8	3 15/16	8.75
23V44	600	115	115	GMV	3 x 6	4 5/8	3 7/8	6 1/4	16
27V24	600	115	115	YY	4 1/4 x 5 1/8	6 3/4	5 3/4	6 1/4	27
23V27	1,000	105/115/125	115	JUV#	4 5/8 x 5 3/4	9 7/8	6 3/4	6 1/4	38
27V25	1,000	115	115	YY	4 1/4 x 4 1/2	6 3/4	5 3/4	6 1/4	35
27V19	1,000	440	115	YY	5 1/8 x 4 1/4	6 3/4	6 1/4	5 3/4	40
23V88	1,200	110/120	110/120	GMV	3 5/8 x 6 5/8	5 7/8	4 1/2	8 1/2	30

Autoformers

50/60 CYCLES

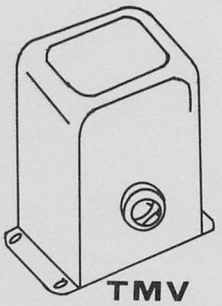
These Autoformers provide a smaller and more economical method of changing from 115 to 220 or 220 to 115 Volts. They provide correct line voltages for machine tool control units such as sequence timers, solenoids and lighting systems.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Mtg. Type	Mtg. Centers	Dimensions H	W	D	Wt. Lbs.
23V79	50	230	115	BAH	3 1/8	2 1/4	3 5/8	2	1.5
25V10	50	220/250	110/125	TMV	2 x 3 1/8	3 9/16	3 1/2	2 7/8	2.7
23V70	65	230	115	GMV	2 x 1 11/16	3 1/16	2 1/2	2 3/4	2.7
23V202	80	115	230	CAV	1 3/4 x 2 1/4	2 5/8	2 3/16	2 7/8	2
23V81	85	220/240	110/120	GMV	2 x 1 7/8	3 1/8	2 5/8	2 7/8	4
23V21	100	220/250	110/125	GMV	2 1/2 x 1 3/4	3 7/8	3 1/4	2 7/8	3
23V71	100	230	115	GMV	2 x 2 1/4	3 1/2	3	3 1/8	3.7
25V11	100	220/250	110/125	TMV	2 3/4 x 3 7/8	4 5/16	3 11/16	4 7/16	6.5
23V82	125	220/240	110/120	GMV	2 1/16 x 2 1/4	3 1/2	3	3 1/2	4
23V22	150	220/250	110/125	GMV	2 x 2 1/2	3 7/8	3 1/4	3 1/8	4
25V12	150	220/250	110/125	TMV	2 1/2 x 4 3/4	5 5/16	4 9/16	5 1/4	9
23V83	175	220/240	110/120	GMV	2 1/2 x 2 1/4	3 7/8	3 1/4	3 3/4.	5.5
23V23	250	220/250	110/125	GMV	3 x 2 3/8	4 5/8	3 7/8	3 1/2	6.2
23V72	250	230	115	GMV	2 3/4 x 2 7/8	4 1/4	3 7/8	3 1/2	7
25V13	250	220/250	110/125	TMV	2 1/2 x 4 3/4	5 5/16	4 9/16	5 1/4	8.7
23V20	300	230	115	GMV	3 x 3 1/16	4 5/8	3 7/8	4 1/8	10
23V24	500	220/250	110/125	GMV	3 x 3 3/8	4 5/8	3 7/8	4 1/2	10.2
25V14	500	220/250	110/125	TMV	3 1/2 x 5 3/8	6 1/16	5 7/8	5 5/16	14.5
23V78	600	230	115	GMV	3 x 3 7/8	4 5/8	4	5	12
23V73	1,000	230	115	GMV	3 1/2 x 4 1/4	5 1/4	4 3/8	5 3/4	19.5
23V32	1,000	220/250	110/125	JUV#	4 1/4 x 3 1/2	6 5/8	5	6 5/8	20
25V15	1,000	220/250	110/125	TMV	4 1/4 x 6	7 1/16	6 1/8	6 1/2	22
23V201	1,000	120	440	GGV	3 7/16 x 5 5/8	5 3/4	4 1/4	7 1/2	25
23V84	1,200	220/240	110/120	GMV	3 x 5 1/2	4 5/8	3 7/8	6 7/8	18
23V120	2,000	230	115	GMV	3 1/2 x 6 7/8	5 5/16	4 1/2	7 7/8	33
23V85	2,500	220/240	110/120	JUV	3 7/8 x 9 7/8	6 3/4	4 3/4	10 1/2	30
23V200	3,000	230	115	JUV	4 1/4 x 6	6 3/8	5 5/16	7 5/8	40
23V46	3,000	208 or 230	230 or 208	GMH	2 1/2 x 3 3/4	4	4 1/2	6	10

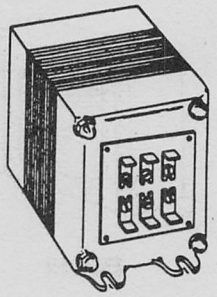
† Ultrashielded —epoxy potted with leads

\# Has octagon outlet box for house wiring connections

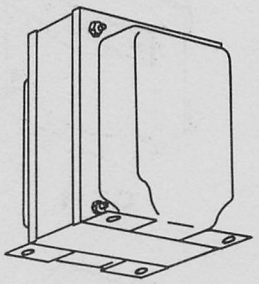
* Complete with tap switch



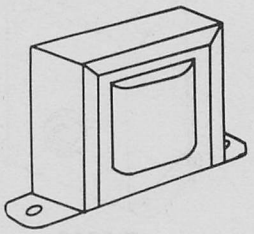
TMV



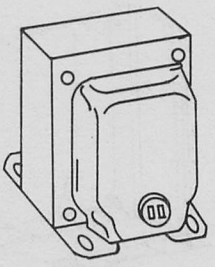
PUV



GGV



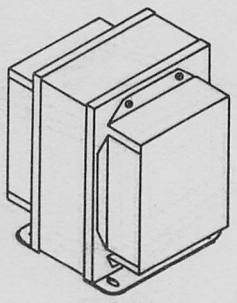
BAH



GMV

GMH

GMH SAME AS GMV BUT WITH HORIZONTAL MOUNTING

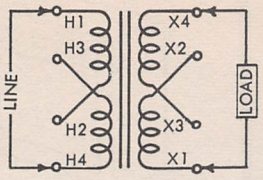


JUV

✪ 27 SERIES FOR MORE DETAILED INFORMATION ON MOUNTING TYPE; SPECIAL APPLICATIONS AND FREQUENCY RESPONSE REFER TO THE GREEN SECTION OF THIS CATALOG.

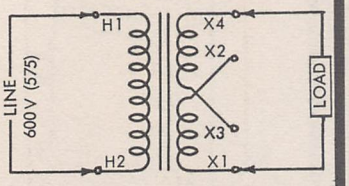
TRANSFORMERS

WIRING DIAGRAM S-1



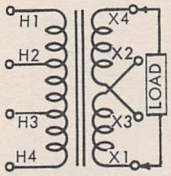
PRI. 480 V (460) CONNECT H2 - H3
SEC. 240 V (230) CONNECT X2 - X3
PRI. 240 V (230) CONNECT H1 - H3 & H2 - H4
SEC. 120 V (115) CONNECT X1 - X3 & X2 - X4

WIRING DIAGRAM S-2



SEC. 240 V (230) CONNECT X2 - X3
SEC. 120 V (115) CONNECT X1 - X3 & X2 - X4

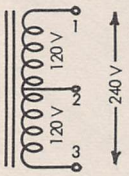
WIRING DIAGRAM S-3



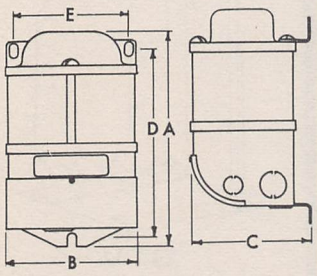
SEC. 240 V (230) CONNECT X2 - X3
SEC. 120 V (115) CONNECT X1 - X3 & X2 - X4

PRI. VOLTS G-316	PRI. VOLTS G-317	CONNECT LINE TO
480	600	H1 - H4
456	570	H1 - H3
432	540	H1 - H2

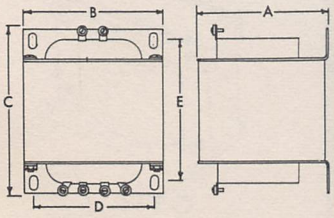
WIRING DIAGRAM S-4



PRI. 240 V (230) CONNECT LINE TO 1 - 3
PRI. 120 V (115) CONNECT LINE TO 1 - 2



D-1



D-111

Dry Type - Distribution

INDOOR — SINGLE PHASE — DOUBLE WOUND — 50/60 CYCLES
D-1 MOUNTING.

DRY TYPE GENERAL PURPOSE TRANSFORMERS are supplied in either double winding isolation or single winding auto-transformer types for 50/60 CPS applications. Either type may be used single phase or connected in a group of three for three phase. All units are Class B insulation for 80°C rise except the units marked (§) Class A for 55°C rise.

CASE AND JUNCTION BOX. A stamped steel case encloses the entire coil assembly and presents an attractive appearance. The junction box is an integrated part of the case and provides easy access and wiring to the individually marked primary and secondary leads. Knock outs are provided on the junction box for attaching conduit or bushings.

WIRING DIAGRAMS AND INSTRUCTIONS are furnished with each unit. On the inside of the junction box cover, a decal shows the schematic diagram and ratings of each transformer.

APPLICATIONS

1. To provide 120 Volt Lighting or 120/240 Volt Power from 240-480-600 Volt distribution circuits.
2. To insulate or isolate lighting circuits from power circuits allowing the use of grounded or ungrounded circuits independent of power or other lighting circuit grounds.
3. The auto-transformers provide a smaller and more economical method of voltage changing. These auto-transformers may be used to obtain 120 Volts from a 240 Volt circuit, to establish a neutral ground from a 240 Volt circuit, or to balance the 120/240 Volt loading on a three phase line to obtain lower demand billing by the utility company.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Wiring Diagram	Mtg. Centers D	Mtg. Centers E	Dimensions A	Dimensions B	Dimensions C	Wt. Lbs.
G-301	50§	230/460	115/230	S-1	5 3/8	2 1/2	6 1/4	3 3/16	3	3.5
G-302	50§	575	115/230	S-2	5 3/8	2 1/2	6 1/4	3 3/16	3	3.5
G-303	75§	230/460	115/230	S-1	5 3/4	2 1/2	6 1/2	3 3/16	3	4
G-304	75§	575	115/230	S-2	5 3/4	2 1/2	6 1/2	3 3/16	3	4
G-305	100	240/480	120/240	S-1	6	2 1/2	6 13/16	3 3/16	3	5
G-306	100	600	120/240	S-2	6	2 1/2	6 13/16	3 3/16	3	3.5
G-307	150	240/480	120/240	S-1	6 3/8	3 1/4	7 3/8	3 7/8	3 1/2	6
G-308	150	600	120/240	S-2	6 3/8	3 1/4	7 3/8	3 7/8	3 1/2	6
G-309	250	240/480	120/240	S-1	7	3 1/4	8	3 7/8	3 1/2	8
G-310	250	600	120/240	S-2	7	3 1/4	8	3 7/8	3 1/2	8
G-311	500	240/480	120/240	S-1	8 7/8	3 7/8	10	4 11/16	4 9/32	15
G-312	500	600	120/240	S-2	8 7/8	3 7/8	10	4 11/16	4 9/32	15
G-313	750	240/480	120/240	S-1	10 7/8	3 7/8	12	4 11/16	4 9/32	20
G-314	750	600	120/240	S-2	10 7/8	3 7/8	12	4 11/16	4 9/32	20
G-315	1,000	240/480	120/240	S-1	8 3/4	4 1/2	10 1/4	5 1/2	4 7/8	29
G-316	1,000	480*	120/240	S-3	8 3/4	4 1/2	10 1/4	5 1/2	4 7/8	29
G-317	1,000	600*	120/240	S-3	8 3/4	4 1/2	10 1/4	5 1/2	4 7/8	29

Dry Type - Distribution

INDOOR — SINGLE PHASE — AUTOFORMERS — 50/60 CYCLES
D-1 MOUNTING.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Wiring Diagram	Mtg. Centers D	Mtg. Centers E	Dimensions A	Dimensions B	Dimensions C	Wt. Lbs.
G-318	100§	115/230	115/230	S-4	5 1/8	2 1/2	5 7/8	3 7/16	3	3
G-319	150§	115/230	115/230	S-4	5 3/4	2 1/2	6 1/2	3 3/16	3	4
G-320	250§	115/230	115/230	S-4	6 5/8	3 1/4	7 5/8	3 7/8	3 1/2	7
G-321	500§	115/230	115/230	S-4	9 1/4	3 7/8	10 3/8	4 11/16	4 9/32	15
G-322	750	120/240	120/240	S-4	7 7/8	3 1/4	8 7/8	3 7/8	3 1/2	9.5
G-323	1,000	120/240	120/240	S-4	8 5/8	3 7/8	9 3/4	4 11/16	4 9/32	12.5
G-324	1,500	120/240	120/240	S-4	9 7/8	3 7/8	11	4 11/16	4 9/32	17
G-325	2,000	120/240	120/240	S-4	8 3/8	4 1/2	9 3/4	5 1/2	4 7/8	23

Control Transformers - Machine Tool Type

MACHINE TOOL TYPE CONTROL TRANSFORMERS are double winding isolation type for 50/60 CPS applications. They feature rugged design, compactness, and low regulation at economical prices.

WIRING DIAGRAMS AND INSTRUCTIONS are furnished with each unit.

Screw terminals are provided to facilitate wiring connections.

APPLICATIONS

1. To provide 115 Volt Power or Lighting within machine tools or other equipment from 230/460 Volt power circuits.
2. To permit direct grounding lighting or control circuits independent of power distribution grounds for greater operator safety.

Part No.	VA Output	Primary Voltage	Secondary Voltage	Wiring Diagram	Mtg. Centers D	Mtg. Centers E	Dimensions A	Dimensions B	Dimensions C	Wt. Lbs.
G-342	50	230/460	115	S-6	3 1/8	1 1/2	3 3/16	3 3/4	3 3/16	3
G-343	75	230/460	115	S-6	3 1/8	1 3/4	3 3/16	3 3/4	3 7/16	4
G-344	150	230/460	115	S-6	3 3/4	2 3/8	3 7/8	4 5/8	3 15/16	7.5
G-345	300	230/460	115	S-6	3 3/4	4	3 7/8	4 5/8	5 9/16	13.5
G-346	500	230/460	115	S-6	4 3/8	3 9/16	4 13/16	5 1/4	5	13.5
G-347	750	230/460	115	S-6	4 3/8	5	4 13/16	5 1/4	6 7/16	21
G-348	1,000	230/460	115	S-6	5 1/2	3 1/2	6 1/8	6 3/4	5 7/8	26.5

* 2 — 5% Taps FCBN (Full Capacity Below Normal Voltage)

Control

Automation Control Transformer

These units have been ruggedized to provide trouble free performance for high speed automatic assembly equipment. Particularly well adapted to relays and pilot lamps.

Part No.	V.A. Rating	Secondary		Mtg. Type	Mtg. Centers	Dimensions			Wt. Lbs.
		Parallel	Series			H	W	D	
23V50	12	6V @ 2A	12V @ 1A	BHV	2 3/8	2 3/8	2 7/8	2	.75
23V51	24	6V @ 4A	12V @ 2A	BHV	2 7/8	3 5/8	3 3/8	2 1/4	1.5
23V52	48	12V @ 4A	24V @ 2A	BHV	3 1/8	3 1/8	3 5/8	2 3/8	2
23V53	96	12V @ 8A	24V @ 4A	CHV	2 3/8 x 2 1/4	3 3/8	2 7/8	3	3.5
23V54	192	12V @ 16A	24V @ 8A	CHV	2 7/8 x 2 3/4	4 1/8	3 1/2	3 1/2	8

Signaling And Power Circuit Transformers

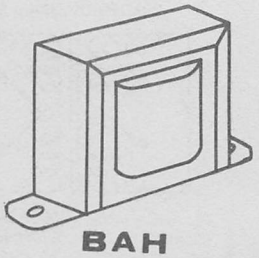
(Also see Control Service Transformers next page.)

Part No.	VA Output	Primary Voltage	Secondary		Mtg. Type	Mtg. Centers	Dimensions			Wt. Lbs.
			Voltage	Amps.			H	W	D	
23V226	36	115	6/12/18/24	1.5	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.5
23V223	40δ	100/115/125	6/10/15/20/25	1.6 Max.■	BGH	3 9/16	2 1/2	4	2 1/2	2
23V03	48	115	4/8/12/16/20/24	2 Max.■	BAH	3 1/8	2 1/4	3 11/16	2 1/2	1.7
23V40	50	115	4/8/12/16/24	2.08 Max.■	GTV	2 1/4 x 1 7/8	3 9/16	3	3 1/2	3
27V28	50	115	4/8/10/12/14	3.5 Max.■	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	5
23V04	96	115	4/8/12/16/20/24	4 Max.■	LAV	2 1/4 x 2 1/16	3 1/2	2 7/8	2 9/16	3.1
23V41	100	115	4/8/12/16/24	4.2 Max.■	GTV	2 1/2 x 2 1/8	4	3 1/4	4	5
23V42	250	115	4/8/12/16/24	10.5 Max.■	GTV	3 x 3 1/4	4 5/8	4	5	10
23V221	1,200	115	4§ 8 16 20	150 Max.§ 150 Max. 75 Max. 20 Max.	CTH	6 x 4 1/4	6 1/2	5 5/16	7	37
23V222	1,900	115/220	8§ 16 32 64 128	180 Max.§ 100 Max. 30 Max. 30 Max. 10 Max.	CTH	8 x 5	7 5/8	9	6	54

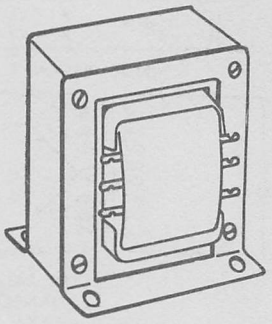
Low Voltage Control

Part No.	VA Output	Primary Voltage	Secondary		Mtg. Type	Mtg. Centers	Dimensions			Wt. Lbs.
			Voltage	Amps.			H	W	D	
23V153	.5	115**	24	40 MA	DAF	-	7/8	3/4	1	.1
23V141	1.2	115	12	100 MA	BAH	1 3/4	1 3/16	2 1/8	1	.2
23V154	3.1	115**	24	130 MA	BGH	2	1 3/8	2 3/8	1 3/8	.5
23V147	4.5	115**	20	225 MA	BAH	2 3/8	1 5/8	2 13/16	1 5/8	.5
23V172	5.6	115**	28	200 MA	BAV	2 3/8	2 3/8	2 7/8	2 1/8	1.2
27V31	7.2	115**	6	1.2	AJ	1 3/16 x 1 3/16	2 3/8	1 5/8	1 5/8	.75
23V156	9.6	220**	24	400 MA	BAV	2 1/8	2	2 5/8	1 5/8	.5
23V155	10	115	24	417 MA	BAV	2 3/8	2 3/8	2 7/8	1 3/4	.8
23V157	10	115/230	24	417 MA	BAH	2 3/8	1 5/8	2 13/16	1 7/8	.5
23V50	12	115/230	6 12	2 or 4	BHV	2 3/8	2 3/8	2 7/8	2	.75
23V225	14.5	110/115**	4/6.75/7.25	2	BAH	2 13/16	2	3 1/8	2 1/8	1.5
23V158	14.5	115	24	600 MA	BAH	2 13/16	2	3 1/8	1 3/4	1.2
23V168	15	115	25	600 MA	BAV	2 3/8	2 3/8	2 7/8	1 3/4	.8
21F27	16	115	26.5CT	600 MA	BAH	2 13/16	2	3 1/4	2 1/8	1.6
23V51	24	115/230	6 or 12	4 2	BHV	2 13/16	3 5/8	3 3/8	2 1/4	1.5
21F68	24	115	24	1	BAH	2 13/16	2	3 1/4	2	1.3
21F84	24	115	24CT	1	BAH	2 13/16	2	3 1/4	2	1.3
23V160	24	115	24	1	BGH	2 13/16	2	3 1/4	1 7/8	1.3
23V159	24	110/220	24	1	BAH	2 13/16	2	3 1/4	1 7/8	1.3
23V134	25	115	1	25	CAV	2 x 1 3/4	3	2 1/2	2 1/2	2
21F51	25.2	115	25.2	1	BAH	2 13/16	2	3 1/4	2	1.3
23V176	25.6	220**	32	800 MA	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.7
21F82	26.8	115	26.8CT	1	BAH	2 13/16	2	3 1/4	2	1.3
23V226	36	115	6/12/18/24	1.5	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.5

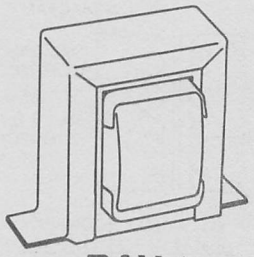
§ Any combination of the given voltages and currents may be used as long as the total VA does not exceed the rated VA.
δ Unit has internal 80°C thermal cutout for maximum protection.
■ Maximum current may be increased 40% when using any of the 3 low voltage taps.
** 60 Cycles



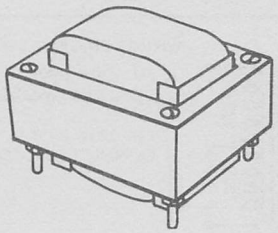
BAH
BGH shielded



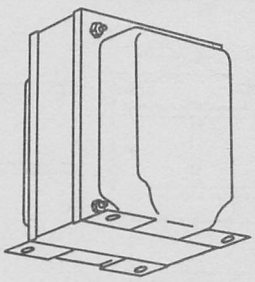
LAV
CAV leads
CHV lugs



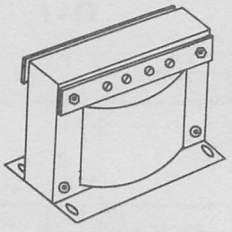
BAV lugs
BHV leads



DAF



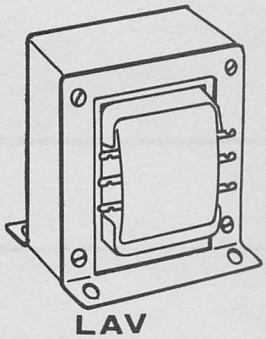
GTV lugs



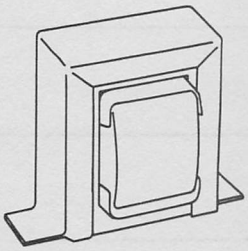
CTH

AJ SEE PAGE 27

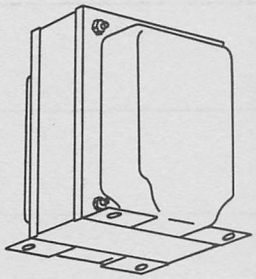
JB SEE PAGE 27



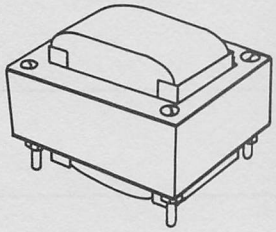
LAV
CAV leads
CHV lugs



BAV lugs
BHV leads



GTV lugs



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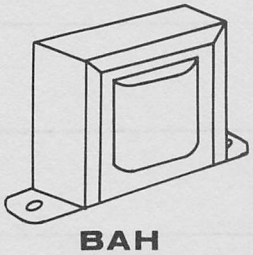
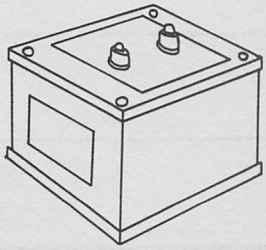


BAH
BGH shielded



KTV
JB SEE PAGE 27
MB SEE PAGE 27

Low Voltage Control continued

Part No.	VA Output	Primary Voltage	Secondary Voltage	Secondary Amps.	Mtg. Type	Mtg. Centers	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.
23V163	36	115	24	1.5	BAV	2 13/16	2 11/16	3 5/16	2 1/4	1.3
23V223	40 δ	100 /115/125	6/10/15/20/25	1.6 Max.■	BGH	3 9/16	2 1/2	4	2 1/2	2
23V03	48	115	4/8/12/16/20/24	2 Max.■	BAH	3 1/8	2 1/4	3 11/16	2 1/2	1.7
23V224	48	115**	12 12	2 2	BAH	3 1/8	2 1/4	3 11/16	2 1/8	1.5
23V52	48	115/230	12 or 24	4 2	BHV	3 1/8	3 1/8	3 5/8	2 3/8	2
23V40	50	115	4/8/12/16/24	2.08 Max.■	GTV	2 1/4 x 1 7/8	3 9/16	3	3 1/2	3
27V28	50	115	6/8/10/12/14	3.6 Max.■	JB	2 5/8 x 2 1/8	3 7/8	3 1/16	3 9/16	5
23V142	50	220	12	4.16	BAV	3 1/8	3 1/16	3 5/8	2 1/4	2
23V144	50	120	16	3.12	CAH	2 13/16 x 2 7/8	2 7/8	3 3/8	2 1/4	3
23V165	50	220	24	2.08	GGV	2 x 2 1/4	3 1/2	2 7/8	3 1/4	2.8
23V166	50	440	24	2.08	GGV	2 x 2 1/4	3 1/2	2 7/8	3 1/4	2.8
21F83	50	115	25.2CT	2	BAH	3 9/16	2 5/8	4	2 1/4	2.2
23V177	54	440	32	1.56	CAV	2 1/4 x 2	3 7/16	2 13/16	2 1/2	3.4
23V151	80	115/230	22.6	3.5	LAV	2 x 2 1/4	3 1/16	2 1/2	2 1/4	3
23V152	80	230	22.8	3.5	GGV	2 1/4 x 2	3 1/2	2 7/8	3 1/4	3
23V04	96	115	4/8/12/16/20/24	4 Max.■	LAV	2 1/4 x 2 1/16	3 1/2	2 7/8	2 9/16	3.1
23V53	96	115/230	12 or 24	8 4	CHV	2 3/8 x 2 1/4	3 3/8	2 7/8	3	3.5
23V41	100	115	4/8/12/16/24	4.2 Max.■	GTV	2 1/2 x 2 1/8	4	3 1/4	4	5
23V145	100	115	16	6.25	CAH	3 1/8 x 2	3 1/8	3 3/4	2 1/2	3.5
23V148	120	115	20	6	GGV	2 1/2 x 2 5/8	3 7/8	3 1/8	3 3/4	5
23V146	180	115	18	10	CTH	3 7/16 x 2 3/8	3 1/2	4 1/8	3 1/2	6
23V218	190	115/230	7.5/12.5	15	CAV	2 1/2 x 2 1/4	3 7/8	3 1/8	2 3/4	4.5
23V54	192	115/230	12 or 24	16 8	CHV	2 7/8 x 2 3/4	4 1/8	3 1/2	3 1/2	8
25V21.	200	115	16/18/20	10	KTV	4 1/16 x 3 5/16	5 1/2	5 1/16	4 5/16	11
23V143	240	115	12	20	GGV	3 x 3 5/8	4 5/8	3 3/4	4 3/4	10
23V42	250	115	4/8/12/16/24	10.5 Max.■	GTV	3 x 3 1/4	4 5/8	4	5	10
27V32	250	115	26	9.6	MB	3 11/16 x 3	4 15/16	4	4 11/16	13
23V181	250	115	48	5.2	CTH	3 3/4 x 2 3/4	3 7/8	4 1/2	3 3/8	7
23V180	430	115	36	12	CTH	4 1/16x3 3/8	4 1/8	4 7/8	4	14
23V221	1,200	115	4§ 8 16 20	150 Max.§ 150 Max. 75 Max. 20 Max.	CTH	6 x 4 1/4	6 1/2	5 5/16	7	37
23V138	1,200	115	8	150	CAH	7 3/4 x 4 1/8	6 1/2	8 3/4	6 1/4	21
23V222	1,900	115/230	8§ 16 32 64 128	180 Max.§ 100 Max. 30 Max. 30 Max. 10 Max.	CTH	8 x 5	7 5/8	9	6	54

Control Service Transformers

D-11 — MOUNTING DOUBLE WOUND 50/60 CYCLE

WIRING DIAGRAMS AND INSTRUCTIONS are furnished with each unit. The 24 Volt and 32 Volt secondary leads have individual grommets for each stranded lead. All primary and 115 Volt secondary leads are brought out through a threaded pipe nipple for attaching conduit or a bushing.

APPLICATIONS: small motors and pumps; oil burner controls; signaling systems; solenoids and relays; burglar alarms; heating elements; control systems; switchboards and panels; pilot lights; electrically operated valves for controlling the flow of gas or liquids

Part No.	VA Output	Primary Voltage	Secondary Voltage	Wiring Diagram	Mtg. Centers D	Mtg. Centers E	Dimensions A	Dimensions B	Dimensions C	Wt. Lbs.
G-326	25	115	24	S-5	2 1/8	1 3/8	3 1/4	2 1/2	2 11/16	2
G-327	50	115	24	S-5	2 1/8	1 7/8	3 1/4	2 1/2	3 1/4	2.75
G-328	75	115	24	S-5	2 5/8	2 1/8	4 1/8	3 1/4	3 1/2	4.25
G-329	100	115	24	S-5	2 5/8	2 1/4	4 1/8	3 1/4	3 5/8	5
G-330	150	115	24	S-5	3	2 1/2	4 15/16	3 15/16	4 3/16	8.25
G-331	250	115	24	S-5	3	3 1/4	4 15/16	3 15/16	4 15/16	9.5
G-332	50	115	32	S-5	2 1/8	1 7/8	3 1/4	2 1/2	3 1/4	2.75
G-333	100	115	32	S-5	2 5/8	2 1/4	4 1/8	3 1/4	3 9/16	5
G-334	150	115	32	S-5	3	2 1/8	4 15/16	3 15/16	4 3/16	8.25
G-335	250	115	32	S-5	3	3 1/4	4 15/16	3 15/16	4 15/16	9.5
G-336	25	230/460	115	S-6	2 1/8	1 3/8	3 1/4	2 1/2	2 11/16	2
G-337	50	230/460	115	S-6	2 1/8	2 1/8	3 1/4	2 1/2	3 7/16	3.25
G-338	75	230/460	115	S-6	3 1/4	2	3 1/2	3 7/8	3 7/16	4.25
G-339	100	230/460	115	S-6	3 1/4	2 3/8	3 1/2	3 7/8	3 13/16	5.5
G-340	150	230/460	115	S-6	3	2 1/2	4 15/16	3 15/16	4 3/16	8
G-341	250	230/460	115	S-6	3	3 1/4	4 15/16	3 15/16	4 15/16	11

■ Maximum current may be increased 40% when using any of the 3 low voltage taps.
δ Unit has internal 80°C thermal cutout for maximum protection.
§ Any combination of the given voltages and currents may be used as long as the total VA does not exceed the rated VA.

NOTES

Application Sheet

STALEY TIME CYCLE CONTROLLERS AND PROGRAMMERS

TO ASSIST YOU—this application sheet has been prepared as a guide in determining the type of controller or programmer required for your application. Sales engineers will assist you, if you desire.

MAIL TO: SWITCHMASTER CORPORATION
Electronic Center, Mt. Carmel, Illinois

PHONE: 262-5121 (area code 618)

Your Company_____

Address_____

Your Name_____ Title_____

Brief description of your application_____

_____

_____

Number of circuits to be controlled._____

Electrical characteristics of circuits to be controlled. Volts_____ Phase_____ Cycles_____ Amps_____

Must Staley controller be synchronized with other operations not directly controlled by it?_____

What is approximate total elapsed time for the complete operating cycle on your application? (from the first circuit "ON" through to the last circuit "OFF") Hours_____ Minutes_____ Seconds_____

The controller will be required to:

Stop automatically at end of each complete operating cycle.

Operate continuously with no stop between complete operating cycles.

Will controller be required to automatically stop at some specific point(s) during its complete operating cycle? Yes. No. If yes, will controller be restarted by an external signal from your equipment? Yes. No. If no, what time delay(s) between "Stop" and "Restart" will be required? Minutes_____ Seconds_____.

Will controller be located and operated under normal indoor conditions? Yes. No.

Briefly describe environmental conditions_____

_____

_____

What power supply will be used to operate the controller? Volts_____ Phase_____ Cycles_____

In the following Timing Schedule, first check-mark each circuit to indicate whether in the "open" or "closed" position at the start of the operating cycle. Then, fill in the total elapsed time (from "Start") in which each circuit is to subsequently "open" or "close". Then, fill in the time or duration in this position.

(continued on other side)

Application Sheet

Staley Time Cycle Controllers and Programmers

For example, consider Circuit No.1 to be "open" at start of cycle, then "closed" after 5 seconds, and remain closed throughout remainder of the operating cycle of the controller; that Circuit No. 2 is to be "closed" at start, then "open" 30 seconds after Circuit No. 1 is closed, then remain "open" for 20 seconds; the timing schedule for these two circuits would be filled in as follows:

CIRCUIT NUMBER	CLOSE	OPEN	* DURATION IN OPEN OR CLOSED POSITION AFTER INITIAL OPERATION
1	5 Sec.	X	Remain closed
2	X	35 Sec.	20 Sec., then close
3			

CIRCUIT NUMBER	CLOSE	OPEN	* DURATION IN OPEN OR CLOSED POSITION AFTER INITIAL OPERATION
1			
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* If one or more circuits are required to be opened or closed several times during the complete operating cycle of the Staley Controller — list such circuits separately, giving the sequence and duration of each "open" and "closed" period throughout the complete cycle.

If your application requires the control of more than 20 different circuits, please list on a separate page.

The timing cams can be readily adjusted in the field. Therefore, final adjustments can be made when controller is installed to permit deviations from your original timing calculations.

Please submit a quotation on the following number of controllers and programmers to the above specifications._____

Do not quote at this time.
We will be glad to assist you with your application.
Write . . . . . phone . . . . . or wire!

REMARKS:_____

_____

_____

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Your Company_____

Address_____

Your Name_____ Title_____

Brief description of your application_____

_____

_____

Number of circuits to be controlled._____

Electrical characteristics of circuits to be controlled. Volts____ Phase____ Cycles____ Amps____

Must Staley controller be synchronized with other operations not directly controlled by it?_____

What is approximate total elapsed time for the complete operating cycle on your application? (from the first circuit "ON" through to the last circuit "OFF") Hours_____ Minutes_____ Seconds_____

The controller will be required to:

Stop automatically at end of each complete operating cycle.

Operate continuously with no stop between complete operating cycles.

Will controller be required to automatically stop at some specific point(s) during its complete operating cycle? Yes. No. If yes, will controller be restarted by an external signal from your equipment? Yes. No. If no, what time delay(s) between "Stop" and "Restart" will be required? Minutes_____ Seconds_____.

Will controller be located and operated under normal indoor conditions? Yes. No.

Briefly describe environmental conditions_____

_____

_____

What power supply will be used to operate the controller? Volts_____ Phase_____ Cycles_____

In the following Timing Schedule, first check-mark each circuit to indicate whether in the "open" or "closed" position at the start of the operating cycle. Then, fill in the total elapsed time (from "Start") in which each circuit is to subsequently "open" or "close". Then, fill in the time or duration in this position.

(continued on other side)

Application Sheet

Staley Time Cycle Controllers and Programmers

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3			

CIRCUIT NUMBER	CLOSE	OPEN	* DURATION IN OPEN OR CLOSED POSITION AFTER INITIAL OPERATION
1			
2			
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* If one or more circuits are required to be opened or closed several times during the complete operating cycle of the Staley Controller — list such circuits separately, giving the sequence and duration of each "open" and "closed" period throughout the complete cycle.

If your application requires the control of more than 20 different circuits, please list on a separate page.

The timing cams can be readily adjusted in the field. Therefore, final adjustments can be made when controller is installed to permit deviations from your original timing calculations.

Please submit a quotation on the following number of controllers and programmers to the above specifications._____

Do not quote at this time.
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REMARKS:_____

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Your Name_____ Title_____

Brief description of your application_____

_____

_____

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Electrical characteristics of circuits to be controlled. Volts_____ Phase_____ Cycles_____ Amps_____

Must Staley controller be synchronized with other operations not directly controlled by it?_____

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Will controller be located and operated under normal indoor conditions? Yes. No.

Briefly describe environmental conditions_____

_____

_____

What power supply will be used to operate the controller? Volts_____ Phase_____ Cycles_____

In the following Timing Schedule, first check-mark each circuit to indicate whether in the "open" or "closed" position at the start of the operating cycle. Then, fill in the total elapsed time (from "Start") in which each circuit is to subsequently "open" or "close". Then, fill in the time or duration in this position.

(continued on other side)

Application Sheet

Staley Time Cycle Controllers and Programmers

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* If one or more circuits are required to be opened or closed several times during the complete operating cycle of the Staley Controller— list such circuits separately, giving the sequence and duration of each "open" and "closed" period throughout the complete cycle.

If your application requires the control of more than 20 different circuits, please list on a separate page.

The timing cams can be readily adjusted in the field. Therefore, final adjustments can be made when controller is installed to permit deviations from your original timing calculations.

Please submit a quotation on the following number of controllers and programmers to the above specifications._____

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PHONE: 262-5121 (area code 618)

Your Company_____

Address_____

Your Name_____ Title_____

Brief description of your application_____

_____

_____

Number of circuits to be controlled._____

Electrical characteristics of circuits to be controlled. Volts_____ Phase_____ Cycles_____ Amps_____

Must Staley controller be synchronized with other operations not directly controlled by it?_____

What is approximate total elapsed time for the complete operating cycle on your application? (from the first circuit "ON" through to the last circuit "OFF") Hours_____ Minutes_____ Seconds_____

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Operate continuously with no stop between complete operating cycles.

Will controller be required to automatically stop at some specific point(s) during its complete operating cycle? Yes. No. If yes, will controller be restarted by an external signal from your equipment? Yes. No. If no, what time delay(s) between "Stop" and "Restart" will be required? Minutes_____ Seconds_____.

Will controller be located and operated under normal indoor conditions? Yes. No.

Briefly describe environmental conditions_____

_____

_____

What power supply will be used to operate the controller? Volts_____ Phase_____ Cycles_____

In the following Timing Schedule, first check-mark each circuit to indicate whether in the "open" or "closed" position at the start of the operating cycle. Then, fill in the total elapsed time (from "Start") in which each circuit is to subsequently "open" or "close". Then, fill in the time or duration in this position.

(continued on other side)

Application Sheet

Staley Time Cycle Controllers and Programmers

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CIRCUIT NUMBER	CLOSE	OPEN	* DURATION IN OPEN OR CLOSED POSITION AFTER INITIAL OPERATION
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* If one or more circuits are required to be opened or closed several times during the complete operating cycle of the Staley Controller — list such circuits separately, giving the sequence and duration of each "open" and "closed" period throughout the complete cycle.

If your application requires the control of more than 20 different circuits, please list on a separate page.

The timing cams can be readily adjusted in the field. Therefore, final adjustments can be made when controller is installed to permit deviations from your original timing calculations.

Please submit a quotation on the following number of controllers and programmers to the above specifications._____

Do not quote at this time.
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Write . . . . . phone . . . . . or wire!

REMARKS:_____

_____

_____

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
A				
20A00	3.00	2.55	2.40	2.20
20A01	4.05	3.44	3.24	2.97
20A02	5.25	4.46	4.20	3.85
20A03	4.50	3.82	3.60	3.33
20A04	1.80	1.53	1.44	1.32
20A05	13.50	11.47	10.80	9.90
20A06	9.00	7.65	7.20	6.60
20A07	3.60	3.06	2.88	2.64
20A08	2.40	2.04	1.92	1.76
20A09	2.67	2.26	2.13	1.95
20A10	4.20	3.57	3.36	3.08
20A11	3.20	2.72	2.56	2.35
20A12	2.00	1.72	1.62	1.48
20A13	5.40	4.59	4.32	3.96
20A14	3.24	2.75	2.59	2.37
20A15	5.02	4.27	4.02	3.68
20A16	1.95	1.66	1.56	1.43
20A17	4.80	4.08	3.84	3.52
20A18	2.04	1.73	1.63	1.49
20A19	2.64	2.24	2.11	1.93
20A21	2.40	2.04	1.92	1.76
20A22	2.55	2.17	2.04	1.87
20A23	5.34	4.54	4.27	3.91
20A24	4.20	3.57	3.36	3.08
20A25	9.74	8.28	7.80	7.14
20A26	9.74	8.28	7.80	7.14
20A27	12.75	10.85	10.20	9.34
20A28	1.80	1.53	1.44	1.32
20A29	5.40	4.59	4.32	3.96
20A30	2.55	2.17	2.04	1.87
20A31	3.90	3.31	3.12	2.86
20A32	2.40	2.04	1.92	1.76
20A33	1.74	1.48	1.39	1.27
20A34	4.20	3.57	3.36	3.08
20A35	2.40	2.04	1.92	1.76
20A36	2.55	2.17	2.04	1.87
20A37	3.00	2.55	2.40	2.20
20A38	4.20	3.57	3.36	3.08
20A39	5.40	4.59	4.32	3.96
20A40	18.00	15.30	14.40	13.20
20A41	18.00	15.30	14.40	13.20
20A42	2.31	1.96	1.85	1.69
20A43	9.00	7.65	7.20	6.60
20A44	2.70	2.30	2.16	1.98
20A45	1.65	1.38	1.30	1.21
20A46	1.95	1.65	1.56	1.43
20A47	2.55	2.17	2.04	1.87
20A48	1.95	1.66	1.56	1.43
20A49	1.90	1.60	1.51	1.38
20A50	18.00	15.30	14.40	13.20
20A51	15.00	12.75	12.00	11.00
20A52	15.00	12.75	12.00	11.00
20A53	18.00	15.30	14.40	13.20
20A80	2.07	1.76	1.65	1.51
20A90	4.80	4.08	3.84	3.52
20A91	3.30	2.80	2.64	2.42
20A92	3.00	2.55	2.40	2.20
20A93	2.25	1.88	1.76	1.65
20A94	3.61	3.06	2.88	2.64
20A95	2.70	2.29	2.16	1.98
20A96	3.00	2.55	2.40	2.20
20A97	4.80	4.08	3.84	3.52
20A98	3.60	3.06	2.88	2.64
25A01	24.00	20.40	19.20	17.60
25A02	28.50	24.22	22.80	20.90
25A03	26.25	22.30	21.00	19.25
25A04	24.75	21.03	19.80	18.15
25A05	45.00	38.25	36.00	33.00
25A06	24.00	20.40	19.20	17.60
25A07	25.50	21.70	20.04	18.70
25A08	30.00	25.50	24.00	22.00
25A09	37.50	31.90	30.00	27.50
25A10	21.00	17.85	16.80	15.40
25A11	37.50	31.90	30.00	27.50
25A12	16.50	14.02	13.20	12.10
25A13	21.00	17.85	16.80	15.40
25A14	34.50	29.32	27.60	25.30
25A15	34.50	29.32	27.60	25.30
25A16	10.50	8.92	8.40	7.70
25A17	9.00	7.65	7.20	6.60
25A18	9.74	8.28	7.80	7.14
25A19	18.00	15.30	14.40	13.20
25A20	8.70	7.39	6.95	6.38
25A21	9.73	8.26	7.78	6.78
25A22	11.10	9.43	8.87	8.13
25A23	13.50	11.46	10.80	9.90
25A24	5.70	4.84	4.56	4.18
25A25	15.75	13.40	12.60	11.55
25A26	15.75	13.40	12.60	11.55
25A27	7.05	6.00	5.64	4.91
25A28	7.05	6.00	5.64	4.91
25A29	6.75	5.73	5.40	4.70
25A30	7.05	6.00	5.64	4.91
25A31	7.05	6.00	5.64	4.91
25A32	6.75	5.73	5.40	4.70
25A33	9.15	7.78	7.33	6.38
25A34	7.50	6.38	6.00	5.22
25A35	6.00	5.10	4.80	4.18
25A36	6.00	5.10	4.80	4.18
25A37	6.75	5.73	5.40	4.70
25A38	6.75	5.73	5.40	4.70
25A39	6.75	5.73	5.40	4.70
25A40	7.05	6.00	5.64	4.91
25A41	7.05	6.00	5.64	4.91
25A42	7.35	6.24	5.88	5.12
25A43	7.65	6.50	6.12	5.33
25A44	7.65	6.50	6.12	5.33
25A45	7.95	6.76	6.36	5.54
25A46	7.65	6.50	6.12	5.33
25A47	7.65	6.50	6.12	5.33
25A48	7.65	6.50	6.12	5.33
25A49	7.65	6.50	6.12	5.33
25A50	8.10	6.88	6.48	5.64
25A51	8.10	6.88	6.48	5.64
25A52	7.65	6.50	6.12	5.33
25A53	8.10	6.88	6.48	5.64
25A54	8.10	6.88	6.48	5.64
25A55	7.65	6.50	6.12	5.33
25A56	7.50	6.38	6.00	5.22
25A57	8.10	6.88	6.48	5.64
25A58	12.00	10.20	9.60	8.36
25A59	10.80	9.18	8.64	7.52
25A60	10.80	9.18	8.64	7.52
25A61	10.80	9.18	8.64	7.52
25A62	10.05	8.54	8.04	7.00
25A63	13.50	11.47	10.80	9.41
25A64	9.00	7.65	7.20	6.27
25A65	10.80	9.18	8.64	7.52
25A66	10.80	9.18	8.64	7.52
25A67	9.15	7.78	7.33	6.38
25A68	9.00	7.65	7.20	6.27
25A69	8.70	7.40	6.96	6.05
25A70	8.70	7.40	6.96	6.05
25A71	8.40	7.14	6.72	5.85
25A72	15.75	13.39	12.60	10.97
25A73	15.75	13.39	12.60	10.97
25A74	19.95	16.96	15.96	13.90
25A75	16.20	13.77	12.96	11.28
25A76	13.50	11.47	10.80	9.41
25A77	17.85	15.17	14.28	12.44
25A78	17.85	15.17	14.28	12.44
25A79	18.90	16.06	15.12	13.17
25A80	13.50	11.47	10.80	9.41
25A81	15.90	13.51	12.72	11.08
25A82	17.10	14.54	13.68	11.91
25A83	24.75	21.04	19.80	17.24
25A84	15.00	12.75	12.00	10.45
25A85	9.00	7.65	7.20	6.27
25A86	9.00	7.65	7.20	6.27
25A87	9.45	8.03	7.56	6.58
25A88	8.10	6.88	6.48	5.64
25A89	9.00	7.65	7.20	6.27
25A90	12.15	10.33	9.72	8.46
25A91	12.00	10.20	9.60	8.36

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
A				
25A92	7.65	6.50	6.12	5.33
25A93	8.10	6.88	6.48	5.64
25A94	8.10	6.88	6.48	5.64
25A95	9.00	7.65	7.20	6.27
25A100	8.86	7.53	7.08	6.49
25A101	8.86	7.53	7.08	6.49
25A102	10.20	8.67	8.16	7.48
25A103	10.20	8.67	8.16	7.48
25A104	11.25	9.56	9.00	8.24
25A105	9.45	8.03	7.56	6.92
25A106	7.94	6.75	6.36	5.82
25A107	9.30	7.90	7.44	6.82
25A108	8.86	7.53	7.80	6.49
25A109	9.60	8.16	7.68	7.04
25A110	9.45	8.03	7.56	6.92
25A111	7.94	6.75	6.36	5.82
25A112	9.45	8.03	7.56	6.92
25A113	9.45	8.03	7.56	6.92
25A114	13.20	11.22	10.55	9.68
25A115	18.60	15.80	14.86	13.64
25A116	15.30	13.00	12.24	11.22
25A117	10.95	9.31	8.76	8.03
25A118	11.55	9.82	9.24	8.47
25A119	6.90	5.86	5.52	5.06
25A120	5.85	4.97	4.68	4.29
25A121	3.75	3.19	3.00	2.75
25A122	4.05	3.44	2.24	2.97
25A123	4.20	3.57	3.36	3.08
25A124	10.50	8.92	8.40	7.70
25A125	10.50	8.92	8.40	7.70
27A01	14.25	12.11	11.40	9.97
27A02	12.75	10.83	10.20	8.88
27A03	12.75	10.83	10.20	8.88
27A04	25.50	21.67	20.40	17.76
27A05	25.50	21.67	20.40	17.76
27A06	27.00	23.00	21.63	18.81
27A07	27.00	23.00	21.63	18.81
27A08	24.60	20.91	19.68	17.13
27A09	16.20	13.77	12.96	11.28
27A10	13.50	11.47	10.80	9.40
27A11	17.70	15.05	14.25	12.96
27A12	24.75	21.03	19.80	18.25
27A13	24.75	21.03	19.80	18.25
27A14	20.25	17.21	16.20	14.85
27A15	12.30	10.45	9.84	9.02
27A16	7.50	6.37	6.00	5.22
27A17	6.75	5.73	5.40	4.70
27A18	6.75	5.73	5.40	4.70
27A19	6.75	5.73	5.40	4.70
27A20	8.10	6.88	6.48	5.64
27A21	8.70	7.39	6.96	6.06
27A22	12.00	10.20	9.60	8.80
27A23	7.05	6.00	5.64	4.91
27A24	7.05	6.00	5.64	4.91
27A25	7.35	6.24	5.88	5.12
27A26	9.15	7.78	7.33	6.38
27A27	7.50	6.37	6.00	5.22
27A28	7.35	6.24	5.88	5.12
27A29	12.00	10.20	9.60	8.80
27A30	7.50	6.37	6.00	5.72
27A32	8.10	6.88	6.48	5.64
27A33	8.10	6.88	6.48	5.64
27A34	8.10	6.88	6.48	5.64
27A35	7.35	6.24	5.88	5.12
27A36	8.85	7.58	7.08	6.16
27A37	8.10	6.88	6.48	5.64
27A38	7.80	6.63	6.24	5.44
27A39	7.80	6.63	6.24	5.44
27A40	7.95	6.76	6.36	5.54
27A41	7.80	6.63	6.24	5.44
27A42	7.80	6.63	6.24	5.44
27A43	14.85	12.60	11.90	10.35
27A44	13.50	11.47	10.80	9.40
27A45	16.20	13.77	12.96	11.28
27A46	13.50	11.47	10.80	9.40
27A47	13.50	11.47	10.80	9.40
27A48	15.60	13.26	12.48	10.86
27A50	8.10	6.88	6.48	5.64
27A51	9.90	8.41	7.92	7.26
27A52	6.15	5.23	4.92	4.51
27A53	7.35	6.24	5.88	5.12
27A54	8.10	6.88	6.48	5.64
27A55	7.50	6.37	6.00	5.22
27A56	7.50	6.37	6.00	5.22
27A57	7.50	6.37	6.00	5.22
27A58	7.20	6.12	5.76	5.01
27A59	9.30	7.90	7.44	6.82
27A60	9.30	7.90	7.44	6.82
27A61	6.60	5.61	5.28	4.84
27A62	6.75	5.73	5.40	4.70
27A63	6.45	5.49	5.16	4.50
27A64	7.05	6.00	5.64	4.91
27A65	11.40	9.67	9.12	8.36
27A66	12.75	10.83	10.20	9.35
27A67	12.75	10.83	10.20	9.35
27A68	7.20	6.12	5.76	5.02
27A69	7.50	6.37	6.00	5.22
27A70	25.50	21.67	20.40	18.70
27A71	19.20	16.32	15.36	14.08
27A72	27.75	23.58	22.20	20.34
27A73	25.20	21.42	20.16	18.46
27A74	23.40	19.90	18.72	17.16
27A75	24.60	20.90	19.69	18.05
27A76	25.20	21.42	20.16	18.46
27A77	19.20	16.32	15.36	14.08
27A78	19.20	16.32	15.36	14.08
27A79	17.40	14.80	13.92	12.76
27A80	18.60	15.87	14.88	13.64
27A81	11.70	9.95	9.36	8.59
27A82	12.00	10.20	9.60	8.80
27A83	12.00	10.20	9.60	8.80
27A84	12.00	10.20	9.60	8.80
27A85	11.25	9.56	9.00	8.25
27A86	11.70	9.95	9.36	8.59
27A87	12.00	10.20	9.60	8.80
27A88	12.00	10.20	9.60	8.80
27A89	12.75	10.84	10.20	9.35
27A90	12.75	10.84	10.20	9.35
27A91	12.75	10.84	10.20	9.35
27A92	12.60	10.71	10.08	9.24
27A93	12.60	10.71	10.08	9.24
27A94	10.50	8.92	8.40	7.70
27A95	10.80	9.17	8.63	7.91
27A96	10.50	8.92	8.40	7.70
27A97	10.50	8.92	8.40	7.70
27A98	10.50	8.92	8.40	7.70
27A107	7.50	6.37	6.00	5.50
27A108	7.50	6.37	6.00	5.50
27A109	6.60	5.60	5.28	4.84
27A110	6.15	5.23	4.92	4.52
27A111	6.90	5.86	5.52	5.06
27A112	6.90	5.86	5.52	5.06
27A113	11.70	9.95	9.36	8.59
27A114	12.00	10.20	9.60	8.80
27A115	10.05	8.54	8.04	7.37
27A116	12.90	10.98	10.34	9.46
27A117	12.75	10.85	10.20	9.34
27A118	10.50	8.92	8.40	7.70
27A119	12.45	10.59	9.96	9.13
27A120	23.25	19.75	18.60	17.05
27A121	23.55	20.01	18.84	17.27
27A122	27.00	22.95	21.60	19.80
27A123	24.75	21.03	19.80	18.15
27A124	20.25	17.21	16.20	14.85
27A125	16.50	14.02	13.20	12.10
27A126	18.00	15.30	14.40	13.20
27A127	9.45	8.03	7.56	6.92
27A129	15.00	12.75	12.00	11.00
27A130	15.00	12.75	12.00	11.00
27A131	18.00	15.30	14.40	13.20
27A132	8.10	6.88	6.48	5.94
27A135	18.00	15.30	14.40	13.20
27A136	18.00	15.30	14.40	13.20
27A138	15.00	12.75	12.00	11.00

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"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

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Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
A				
27A139	18.00	15.30	14.40	13.20
27A140	15.00	12.75	12.00	11.00
C				
20C00	3.00	2.55	2.40	2.20
20C01	4.80	4.08	3.84	3.52
20C02	6.45	5.48	5.16	4.73
20C03	7.35	6.30	5.88	5.39
20C04	1.80	1.53	1.44	1.32
20C05	1.41	1.20	1.13	1.03
20C06	2.25	1.92	1.80	1.65
20C07	1.95	1.65	1.55	1.43
20C08	2.70	2.30	2.16	1.98
20C09	2.46	1.09	1.96	1.80
20C10	4.05	3.44	3.24	2.97
20C11	2.85	2.42	2.28	2.09
20C12	2.85	2.42	2.28	2.09
20C13	4.65	3.95	3.72	3.41
20C14	3.45	2.93	2.76	2.53
20C15	4.65	3.95	3.72	3.41
20C16	3.45	2.93	2.76	2.53
20C17	8.40	7.14	6.72	6.16
20C18	9.18	7.80	7.34	6.75
20C19	5.40	4.59	4.32	3.96
20C20	10.80	9.18	8.64	7.92
20C21	2.70	2.30	2.16	1.98
20C22	11.10	9.44	8.88	8.14
20C23	19.50	16.58	15.60	14.30
20C24	19.50	16.58	15.60	14.30
20C25	6.60	5.60	5.28	4.84
20C26	8.25	7.01	6.60	6.05
20C27	10.50	8.92	8.40	7.70
20C28	33.75	28.68	27.00	24.75
20C29	5.40	4.59	4.32	3.96
20C30	6.60	5.60	5.28	4.84
20C31	9.45	8.03	7.56	6.92
20C32	11.25	9.56	9.00	8.24
20C33	11.85	10.07	9.48	8.69
20C34	19.50	16.58	15.60	14.35
20C35	1.75	1.40	1.30	1.20
20C36	1.75	1.40	1.30	1.20
20C37	2.04	1.75	1.65	1.43
20C38	2.70	2.30	2.15	1.87
20C39	3.21	2.72	2.56	2.23
20C40	3.75	3.19	3.00	2.61
20C41	18.75	15.93	15.00	13.75
20C42	3.30	2.80	2.64	2.42
20C43	1.80	1.53	1.44	1.32
20C44	2.25	1.92	1.80	1.65
20C47	1.20	1.02	.96	.88
20C48	2.16	1.83	1.72	1.58
20C49	3.45	2.93	2.76	2.41
20C50	2.70	2.30	2.16	1.98
20C51	1.80	1.53	1.44	1.32
20C52	1.60	1.35	1.30	1.17
20C53	2.25	1.85	1.75	1.65
20C54	4.05	3.44	3.24	2.97
20C54P	6.00	5.10	4.80	4.40
20C55	6.00	5.10	4.80	4.40
20C55P	6.00	5.10	4.80	4.40
20C56	9.00	7.65	7.20	6.60
20C56P	10.50	8.92	8.40	7.70
20C57	45.00	38.25	36.00	33.00
20C58	2.55	2.17	2.04	1.87
20C59	1.62	1.38	1.30	1.20
20C60	22.50	19.15	18.00	16.50
20C61	18.00	15.30	14.40	13.20
20C62	4.05	3.44	3.24	2.97
20C63	3.45	2.93	2.76	2.53
20C64	2.25	1.92	1.80	1.65
20C65	2.25	1.92	1.80	1.65
20C66	1.35	1.14	1.08	1.00
20C67	3.00	2.55	2.40	2.20
20C68	3.15	2.68	2.52	2.31
20C69	9.30	7.90	7.44	6.82
20C70	9.30	7.90	7.44	6.82
20C71	3.90	3.30	3.10	2.86
20C72	9.00	7.65	7.20	6.60
20C73	27.00	22.95	21.60	19.80
20C74	8.55	7.26	6.84	6.26
20C75	3.60	3.00	2.80	2.64
20C76	3.75	3.20	3.00	2.75
20C77	5.10	4.33	4.08	3.74
20C78	5.70	4.85	4.55	4.20
20C79	9.00	7.65	7.20	6.60
20C80	13.50	11.47	10.80	9.90
20C81	1.60	1.28	1.20	1.10
20C82	1.60	1.28	1.20	1.10
20C83	2.40	2.04	1.92	1.76
20C84	1.20	1.05	.95	.88
20C85	2.40	1.80	1.60	1.54
20C86	3.72	3.16	2.97	2.45
20C87	3.72	3.16	2.97	2.45
20C88	3.72	3.16	2.97	2.45
20C89	4.80	4.08	3.80	3.15
20C90	4.86	4.10	3.80	3.60
20C91	4.86	4.10	3.80	3.60
20C92	6.00	5.10	4.80	4.40
20C93	3.75	3.20	3.00	2.75
20C94	4.50	4.00	3.80	3.30
20C95	6.50	5.53	5.20	4.75
20C96	6.00	5.10	4.80	4.40
20C97	9.00	7.65	7.20	6.60
20C98	4.95	4.21	3.96	3.63
20C99	13.50	11.47	10.80	9.90
20C100	10.80	9.18	8.64	7.92
20C102	1.23	1.04	1.00	.90
20C105	5.40	4.59	4.32	3.96
20C106	9.30	7.90	7.44	6.82
20C107	12.60	10.70	10.08	9.24
20C108	5.25	4.46	4.20	3.85
20C109	5.40	4.59	4.32	3.96
20C110	9.00	7.65	7.20	6.60
20C111	3.00	2.55	2.40	2.20
20C112	4.50	3.82	3.60	3.30
20C113	1.50	1.28	1.20	1.10
20C114	1.50	1.28	1.20	1.10
20C116	1.50	1.28	1.20	1.10
20C117	3.00	2.55	2.40	2.20
20C120	3.00	2.55	2.40	2.20
20C123	1.50	1.28	1.20	1.10
20C124	4.80	4.08	3.84	3.52
20C125	1.50	1.28	1.20	1.10
20C126	1.50	1.28	1.20	1.10
20C127	18.00	15.30	14.40	13.20
20C129	18.00	15.30	14.40	13.20
20C130	8.40	7.14	6.72	6.16
20C131	9.30	7.90	7.44	6.82
20C132	8.70	7.40	6.96	6.38
20C133	6.60	5.61	5.28	4.84
20C134	6.60	5.61	5.28	4.84
20C135	8.70	7.40	6.96	6.38
20C136	1.50	1.28	1.20	1.10
20C137	1.80	1.53	1.44	1.32
20C138	3.00	2.55	2.40	2.20
20C139	30.00	25.50	24.00	22.00
20C140	3.00	2.55	2.40	2.20
20C141	3.00	2.55	2.40	2.20
20C142	3.60	3.06	2.88	2.64
20C143	12.00	10.20	9.60	8.80
20C144	52.50	44.60	42.00	38.50
20C145	45.00	38.20	36.00	33.00
20C146	60.00	51.00	48.00	44.00
20C147	4.50	3.82	3.60	3.30
20C148	15.00	12.75	12.00	11.00
20C150	36.00	30.60	28.80	26.40
20C151	15.00	12.75	12.00	11.00
20C153	150.00	128.00	120.00	110.00
20C155	9.30	7.90	7.44	6.82
25C01	5.64	4.79	4.51	3.92
25C02	4.59	3.90	3.67	3.20
25C03	4.59	3.90	3.67	3.20
25C04	4.59	3.90	3.67	3.20

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
C				
25C05	4.59	3.90	3.67	3.20
25C06	9.18	7.80	7.34	6.40
25C07	6.00	5.10	4.80	4.18
25C08	5.70	4.84	4.56	3.97
25C09	6.00	5.10	4.80	4.18
25C10	8.40	7.14	6.72	6.16
25C25	3.75	3.19	3.00	2.75
25C26	3.90	3.32	3.12	2.86
25C27	4.80	4.08	3.84	3.52
25C28	3.75	3.19	3.00	2.75
25C29	4.05	3.44	3.24	2.97
25C30	4.50	3.82	3.60	3.30
25C31	8.25	7.01	6.60	6.05
25C32	7.50	6.38	6.00	5.50
25C33	6.75	5.74	5.40	4.95
25C34	8.85	7.52	7.08	6.49
25C35	7.50	6.38	6.00	5.50
25C36	8.40	7.14	6.72	6.16
25C37	11.25	9.56	9.00	8.25
25C38	8.40	7.14	6.72	6.16
25C39	8.40	7.14	6.72	6.16
25C40	63.00	53.55	50.40	46.20
25C41	75.00	63.80	60.00	55.00
25C42	150.00	127.50	120.00	110.00
25C43	10.50	8.92	8.40	7.70
25C44	60.00	51.00	48.00	44.00
25C45	54.00	45.90	43.20	39.60
25C46	39.00	33.20	31.20	28.60
25C47	30.00	25.50	24.00	22.00
25C48	30.00	25.50	24.00	22.00
25C49	3.90	3.32	3.12	2.86
25C50	4.65	3.95	3.72	3.41
25C51	6.00	5.10	4.80	4.40
25C52	6.00	5.10	4.80	4.40
25C53	6.00	5.10	4.80	4.40
25C54	6.30	5.36	5.04	4.62
25C55	6.00	5.10	4.80	4.40
25C56	7.50	6.38	6.00	5.50
25C57	7.20	6.12	5.76	5.28
25C58	6.90	5.87	5.52	5.06
25C59	11.25	9.60	9.00	8.25
25C60	8.40	7.14	6.72	6.16
25C61	7.20	6.12	5.76	5.02
25C62	6.30	5.36	5.04	4.39
25C63	5.40	4.59	4.32	3.76
25C64	6.75	5.73	5.40	4.70
25C65	8.10	6.88	6.48	5.64
25C66	12.00	10.20	9.60	8.36
25C67	13.50	11.47	10.80	9.40
25C68	24.00	20.40	19.20	16.72
25C69	8.10	6.88	6.48	5.64
25C70	12.00	10.20	9.60	8.36
25C71	13.50	11.47	10.80	9.40
25C72	24.30	20.65	19.44	16.92
25C73	10.20	8.67	8.16	7.11
25C92	4.05	3.44	3.24	2.97
26C40	1.05	.90	.84	.77
26C41	1.58	1.34	1.26	1.16
26C42	1.50	1.28	1.20	1.10
26C43	2.40	2.04	1.92	1.76
26C44	3.00	2.55	2.40	2.20
26C45	6.30	5.35	5.04	4.62
26C76	1.95	1.65	1.55	1.43
26C77	1.37	1.17	1.10	1.01
26C78	2.41	2.05	1.93	1.78
26C79	2.02	1.72	1.62	1.49
26C80	1.83	1.56	1.47	1.35
26C81	2.32	1.98	1.86	1.71
26C82	1.42	1.21	1.14	1.05
26C83	2.85	2.42	2.28	2.10
26C84	2.92	2.49	2.34	2.15
26C85	3.15	2.67	2.52	2.40
26C86	2.40	2.00	1.90	1.75
26C87	1.90	1.60	1.50	1.40
26C88	1.95	1.65	1.55	1.45
26C89	1.95	1.65	1.55	1.45
26C90	6.00	5.10	4.80	4.40
26C91	3.00	2.55	2.40	2.20
26C92	3.00	2.55	2.40	2.20
26C93	2.40	2.00	1.90	1.75
26C94	2.40	2.00	1.90	1.75
26C95	7.50	6.40	6.00	5.50
27C01	10.20	8.67	8.16	7.11
27C02	12.60	10.71	10.08	8.78
27C03	18.90	16.06	15.12	13.17
27C04	15.00	12.75	12.00	10.45
27C05	21.75	18.48	17.40	15.15
27C06	27.00	22.95	21.60	18.81
27C07	28.50	24.23	22.80	19.85
27C08	31.00	26.35	26.40	22.99
27C09	48.00	40.80	38.40	33.44
27C10	67.50	57.38	54.00	47.03
27C11	7.50	6.38	6.00	5.50
27C12	6.90	5.86	5.52	5.06
27C13	6.90	5.86	5.52	5.06
27C14	7.05	5.99	5.64	5.17
27C15	7.05	5.99	5.64	5.17
27C16	9.00	7.65	7.20	6.60
27C17	7.50	6.38	6.00	5.50
27C18	12.00	10.20	9.60	8.80
27C19	10.20	8.67	8.16	7.11
27C20	13.50	11.47	10.80	9.90
27C21	11.55	9.82	9.24	8.05
27C22	12.75	10.83	10.20	9.35
27C23	12.00	10.20	9.60	8.80
27C24	15.00	12.75	12.00	11.00
27C25	18.00	15.30	14.40	13.20
27C26	8.10	6.88	6.48	5.94
27C27	7.50	6.38	6.00	5.50
27C28	9.00	7.65	7.20	6.60
27C29	8.25	7.01	6.60	6.05
27C30	9.75	8.29	7.80	7.15
27C31	11.40	9.69	9.12	8.36
27C32	7.50	6.37	6.00	5.22
27C33	10.20	8.67	8.16	7.47
27C34	11.85	10.07	9.48	8.69
27C35	10.50	8.92	8.40	7.70
27C36	23.40	19.89	18.72	17.16
27C37	6.75	5.73	5.40	4.70
27C38	6.15	5.23	4.92	4.28
27C39	5.40	4.59	4.32	3.76
27C40	5.40	4.59	4.32	3.76
27C41	5.40	4.59	4.32	3.76
27C42	5.40	4.59	4.32	3.76
27C43	5.40	4.59	4.32	3.76
27C44	9.75	8.29	7.78	6.79
27C45	6.60	5.61	5.28	4.60
27C46	6.75	5.73	5.40	4.70
27C47	6.60	5.61	5.28	4.60
27C48	8.10	6.88	6.48	5.64
27C49	15.75	13.39	12.60	10.97
27C50	21.60	18.36	17.28	15.05
27C51	24.30	20.65	19.44	16.93
27C52	32.25	27.41.	25.80	22.47
27C53	6.00	5.10	4.80	4.18
27C54	6.75	5.73	5.40	4.70
27C55	7.50	6.37	6.00	5.22
27C56	9.15	7.78	7.33	6.38
27C57	13.50	11.47	10.80	9.41
27C58	11.40	9.69	9.12	7.94
27C59	18.90	16.06	15.12	13.17
27C60	8.70	7.39	6.96	6.06
27C61	9.73	8.26	7.78	6.78
27C62	5.70	4.84	4.56	3.97
27C63	7.20	6.12	5.76	5.24
27C64	6.15	5.23	4.92	4.51
27C65	5.40	4.60	4.32	3.96
27C67	11.25	9.56	9.00	8.25
27C68	11.40	9.69	9.12	8.36
27C70	7.35	6.24	5.88	5.39
27C71	8.10	6.88	6.48	5.94
27C72	10.95	9.31	8.76	8.03

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

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Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
C				
27C73	9.30	7.90	7.44	6.82
27C74	13.50	11.47	10.80	9.90
27C75	11.10	9.44	8.88	8.14
27C76	16.50	14.05	13.20	12.10
27C79	5.70	4.84	4.56	4.18
27C80	4.80	4.08	3.84	3.52
27C81	4.80	4.08	3.84	3.52
27C82	4.80	4.08	3.84	3.52
27C83	4.80	4.08	3.84	3.52
27C84	4.80	4.08	3.84	3.52
27C85	7.35	6.24	5.88	5.39
27C86	5.85	4.97	4.68	4.29
27C87	7.20	6.12	5.76	5.28
27C88	7.20	6.12	5.76	5.28
27C89	7.20	6.12	5.76	5.28
27C90	7.80	6.63	6.24	5.72
27C91	7.95	6.76	6.36	5.83
27C92	9.75	8.29	7.80	7.15
27C93	9.60	8.16	7.68	7.04
27C94	10.65	9.05	8.52	7.81
27C95	11.10	9.44	8.88	8.14
27C96	12.75	10.83	10.20	9.35
27C97	12.75	10.83	10.20	9.35
27C98	14.55	12.37	11.64	10.73
27C99	18.45	15.68	14.76	13.53
27C100	8.25	7.01	6.60	6.05
27C101	7.65	6.50	6.12	5.61
27C102	7.35	6.24	5.88	5.39
27C103	7.95	6.76	6.36	5.83
27C104	8.60	7.30	6.88	6.31
27C105	5.82	4.95	4.60	4.26
27C106	5.85	4.97	4.68	4.29
27C107	6.90	5.87	5.52	5.06
27C108	6.90	5.87	5.52	5.06
27C109	8.55	7.26	6.84	6.26
27C110	10.05	8.54	8.04	7.37
27C111	30.00	25.50	24.00	22.00
27C112	9.90	8.41	7.92	7.26
27C113	9.90	8.41	7.92	7.26
27C114	10.20	8.67	8.16	7.48
27C115	11.40	9.67	9.12	8.36
27C116	10.50	8.92	8.40	7.70
27C117	11.40	9.67	9.12	8.36
27C118	12.00	10.20	9.60	8.80
27C119	18.00	15.30	14.40	13.20
27C120	10.50	8.92	8.40	7.70
27C121	11.40	9.67	9.12	8.36
27C122	9.60	8.16	7.68	7.04
27C123	7.20	6.12	5.76	5.24
27C124	15.00	12.75	12.00	11.00
27C125	15.00	12.75	12.00	11.00
27C126	18.00	15.30	14.40	13.20
27C127	10.20	8.67	8.16	7.48
27C128	6.00	5.10	4.80	4.40
27C129	15.00	12.75	12.00	11.00
27C130	15.00	12.75	12.00	11.00
27C131	15.00	12.75	12.00	11.00
27C133	15.00	12.75	12.00	11.00
27C134	15.00	12.75	12.00	11.00
27C135	15.00	12.75	12.00	11.00
27C136	15.00	12.75	12.00	11.00
27C137	18.00	15.30	14.40	13.20
27C138	15.00	12.75	12.00	11.00
27C139	18.00	15.30	14.40	13.20
27C140	93.00	79.00	74.00	68.00
27C141	18.00	15.30	14.40	13.20
27C142	7.20	6.12	5.76	5.24
27C143	10.50	8.92	8.40	7.70
27C144	15.00	12.75	12.00	11.00
27C145	18.00	15.30	14.40	13.20
27C146	18.00	15.30	14.40	13.20
27C147	18.00	15.30	14.40	13.20
27C148	72.00	61.20	57.60	52.40
27C149	9.90	8.41	7.92	7.26
27C150	15.00	12.75	12.00	11.00
27C151	15.00	12.75	12.00	11.00
27C152	18.00	15.30	14.40	13.20
D				
20D20	7.20	6.12	5.76	5.24
20D21	2.10	1.79	1.68	1.54
20D23	2.10	1.79	1.68	1.54
20D24	4.50	3.82	3.60	3.30
20D25	4.50	3.82	3.60	3.30
20D26	4.50	3.82	3.60	3.30
20D27	3.60	3.06	2.88	2.64
20D28	1.50	1.28	1.20	1.10
20D29	7.50	6.38	6.00	5.50
20D30	4.50	3.82	3.60	3.30
20D31	2.40	2.04	1.92	1.76
20D32	10.20	8.67	8.16	7.48
20D75	3.00	2.55	2.40	2.20
20D76	3.00	2.55	2.40	2.20
20D77	4.20	3.57	3.36	3.08
20D78	7.80	6.43	6.04	5.72
20D79	6.38	6.00	5.50	5.00
20D80	4.50	3.83	3.60	3.30
20D81	5.10	4.33	4.08	3.74
20D82	9.30	7.90	7.44	6.82
20D83	30.00	25.50	24.00	22.00
20D84	12.00	10.20	9.60	8.80
20D85	2.40	2.04	1.92	1.76
20D86	3.00	2.55	2.40	2.20
20D87	6.00	5.10	4.80	4.40
20D88	1.80	1.53	1.44	1.32
20D89	1.80	1.53	1.44	1.32
25D49	6.00	5.10	4.80	4.40
25D50	6.60	5.61	5.28	4.84
25D51	9.60	8.16	7.68	7.04
25D52	6.60	5.61	5.28	4.84
25D53	27.00	22.95	21.60	19.80
25D54	27.00	22.95	21.60	19.80
25D55	7.80	6.43	6.04	5.72
25D56	7.80	6.43	6.04	5.72
25D57	12.00	10.20	9.60	8.80
25D58	8.70	7.40	6.96	6.38
25D59	8.10	6.88	6.48	5.75
25D60	9.60	8.16	7.68	6.69
25D61	9.60	8.16	7.68	6.69
27D30	12.75	10.83	10.20	9.35
27D31	12.75	10.83	10.20	9.35
27D32	8.70	7.40	6.96	6.38
27D33	9.30	7.90	7.44	6.82
27D34	12.75	10.83	10.20	9.35
27D35	12.75	10.83	10.20	9.35
27D36	10.50	8.92	8.40	7.70
27D37	6.60	5.61	5.28	4.84
27D38	6.60	5.61	5.28	4.84
27D39	6.60	5.61	5.28	4.84
F				
21F00	3.00	2.55	2.40	2.20
21F01	4.50	3.82	3.60	3.30
21F02	5.25	4.46	4.20	3.85
21F02P	8.40	7.14	6.72	6.16
21F03	4.05	3.44	3.24	2.97
21F04	4.71	4.00	3.77	3.45
21F05	6.30	5.36	5.04	4.62
21F06	7.80	6.63	6.24	5.72
21F07	6.75	5.74	5.40	4.95
21F07A	11.70	9.94	9.36	8.58
21F08	1.80	1.55	1.44	1.32
21F09	1.80	1.55	1.44	1.32
21F10	2.73	2.32	2.18	2.00
21F11	4.50	3.80	3.60	3.30
21F12	5.70	4.84	4.56	4.18
21F13	4.53	3.85	3.62	3.32
21F14	3.75	3.19	3.00	2.75
21F15	3.90	3.30	3.10	2.90
21F16	6.75	5.74	5.40	4.95

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
F				
21F17	8.40	7.14	6.72	6.16
21F18	5.25	4.46	4.20	3.85
21F19	10.20	8.67	8.16	7.47
21F20	8.10	6.88	6.48	5.94
21F20P	18.00	15.30	14.40	13.20
21F21	1.68	1.43	1.34	1.23
21F22	7.80	6.63	6.24	5.72
21F23	7.80	6.63	6.24	5.72
21F24	7.50	6.38	6.00	5.50
21F25	9.00	7.65	7.20	6.60
21F26	28.50	24.23	22.80	20.90
21F27	3.75	3.19	3.00	2.75
21F28	6.00	5.10	4.80	4.40
21F29	6.30	5.36	5.04	4.62
21F30	9.00	7.65	7.20	6.60
21F31	3.09	2.63	2.47	2.27
21F32	4.05	3.44	3.24	2.97
21F33	9.75	8.29	7.80	7.15
21F34	2.25	1.92	1.80	1.65
21F35	2.85	2.42	2.28	2.09
21F36	4.35	3.70	3.48	3.19
21F37	4.05	3.44	3.24	2.97
21F38	18.45	15.68	14.76	13.53
21F39	27.00	22.95	21.60	19.80
21F40	3.45	2.93	2.76	2.53
21F41	4.38	3.72	3.50	3.21
21F42	5.37	4.55	4.30	3.94
21F43	5.85	4.97	4.68	4.29
21F44	3.45	2.93	2.76	2.53
21F45	3.75	3.19	3.00	2.75
21F46	6.45	5.48	5.16	4.73
21F47	5.85	4.97	4.68	4.29
21F48	20.10	17.09	16.08	14.74
21F49	21.00	17.85	16.80	15.40
21F50	5.40	4.59	4.32	3.96
21F51	2.82	2.40	2.26	2.07
21F52	7.50	6.38	6.00	5.50
21F53	5.25	4.46	4.20	3.85
21F54	5.25	4.46	4.20	3.85
21F55	7.20	6.12	5.76	5.28
21F56	6.75	5.74	5.40	4.95
21F57	7.50	6.38	6.00	5.50
21F58	5.40	4.59	4.32	3.96
21F59	4.38	3.72	3.50	3.21
21F60	3.60	3.06	2.88	2.64
21F61	4.89	4.16	3.91	3.58
21F62	5.85	4.97	4.68	4.29
21F63	4.20	3.57	3.36	3.08
21F64	7.35	6.24	5.88	5.39
21F65	6.57	5.58	5.26	4.82
21F67	8.25	7.01	6.60	6.05
21F68	8.85	7.52	7.08	6.49
21F69	3.15	2.68	2.52	2.31
21F70	4.05	3.44	3.24	2.97
21F71	3.45	2.93	2.76	2.53
21F72	3.09	2.63	2.47	2.27
21F73	4.65	3.95	3.72	3.41
21F74	5.55	4.72	4.44	4.07
21F75	6.30	5.36	5.04	4.62
21F76	10.35	8.80	8.28	7.59
21F77	9.45	8.03	7.56	6.93
21F78	6.60	5.60	5.30	4.85
21F79	13.35	11.35	10.68	9.79
21F81	3.42	2.91	2.74	2.51
21F82	3.00	2.55	2.40	2.20
21F83	4.50	3.82	3.60	3.30
21F84	3.00	2.55	2.40	2.20
21F85	8.70	7.39	6.96	6.38
21F86	8.10	6.88	6.48	5.94
21F87	4.44	3.77	3.55	3.26
21F88	5.01	4.26	4.01	3.67
21F89	9.75	8.29	7.80	7.15
21F90	7.05	5.99	5.64	5.17
21F91	10.50	8.92	8.40	7.70
21F92	3.00	2.55	2.40	2.09
21F93	3.45	2.93	2.76	2.40
21F94	2.58	2.19	2.06	1.80
21F95	3.63	3.09	2.90	2.53
21F96	4.29	3.65	3.43	2.99
21F97	4.59	3.90	3.67	3.20
21F98	4.05	3.44	3.24	2.82
21F99	4.59	3.90	3.67	3.20
21F100	3.00	2.55	2.40	2.09
21F101	3.38	2.87	2.70	2.35
21F102	4.08	3.47	3.26	2.99
21F103	3.24	2.75	2.59	2.38
21F104	3.45	2.93	2.76	2.53
21F105	3.45	2.93	2.76	2.53
21F107	3.75	3.19	3.00	2.75
21F108	4.50	3.82	3.60	3.30
21F109	6.30	5.36	5.04	4.62
21F110	5.40	4.59	4.32	3.96
21F111	10.20	8.67	8.16	7.47
21F112	7.05	5.99	5.64	5.17
21F113	8.07	6.86	6.45	5.92
21F114	4.20	3.57	3.36	3.08
21F115	6.30	5.36	5.04	4.62
21F116	6.15	5.23	4.92	4.51
21F117	6.30	5.36	5.04	4.62
21F118	7.50	6.38	6.00	5.50
21F119	6.75	5.74	5.40	4.95
21F120	2.40	2.04	1.92	1.67
21F121	4.50	3.82	3.60	3.30
21F122	12.75	10.83	10.20	9.35
21F123	4.50	3.82	3.60	3.30
21F124	4.50	3.82	3.60	3.30
21F125	12.00	10.20	9.60	8.80
21F126	12.00	10.20	9.60	8.80
21F128	15.00	12.75	12.00	11.00
21F129	21.00	17.50	16.80	15.40
21F131	10.50	8.92	8.40	7.70
21F135	3.00	2.55	2.40	2.20
21F136	10.50	8.92	8.40	7.70
21F137	6.00	5.10	4.80	4.40
21F146	8.40	7.14	6.72	6.16
21F147	18.00	15.30	14.40	13.20
21F153	18.00	15.30	14.40	13.20
21F161	5.70	4.85	4.56	4.18
25F18	21.75	18.49	17.40	15.95
25F19	6.00	5.10	4.80	4.40
25F26	9.00	7.65	7.20	6.27
25F39	36.00	30.60	28.80	26.40
25F42	36.00	30.60	28.80	26.40
25F56	9.00	7.65	7.20	6.60
25F57	9.00	7.65	7.20	6.60
25F58	10.50	8.92	8.40	7.70
25F59	21.00	17.85	16.80	15.40
25F60	6.00	5.10	4.80	4.40
25F61	12.15	10.33	9.72	8.91
25F62	21.00	17.85	16.80	15.40
25F63	15.30	13.00	12.24	11.22
25F64	16.50	14.03	13.20	12.10
25F65	18.90	16.06	15.12	13.86
25F66	27.00	22.95	21.60	19.80
25F67	9.00	7.65	7.20	6.60
25F68	5.70	4.84	4.56	4.18
25F69	9.00	7.65	7.20	6.60
25F70	12.00	10.20	9.60	8.80
25F71	7.20	6.12	5.76	5.28
25F72	16.50	14.03	13.20	12.10
25F73	9.30	7.90	7.44	6.82
25F74	13.20	11.22	10.56	9.68
25F75	13.20	11.22	10.56	9.68
25F77	9.45	8.03	7.56	6.93
25F78	8.10	6.88	6.48	5.64
25F79	9.30	7.90	7.44	6.48
25F80	13.50	11.47	10.80	9.41
25F81	16.20	13.77	12.96	11.28
25F82	13.50	11.47	10.80	9.41
25F83	13.50	11.47	10.80	9.41
25F84	16.20	13.77	12.96	11.28
25F85	21.60	18.36	17.28	15.05
25F86	14.55	12.37	11.64	10.73
25F87	12.30	10.46	9.84	9.02

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Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
F				
25F88	14.70	12.65	11.76	10.78
25F89	16.95	14.41	13.56	12.43
25F90	18.00	15.30	14.40	13.20
25F91	15.00	12.75	12.00	11.00
25F92	16.80	14.28	13.44	12.32
25F93	20.25	17.21	16.20	14.85
25F94	3.90	3.32	3.12	2.86
26F60	2.70	2.21	1.98	1.84
26F61	7.00	5.95	5.60	4.73
26F63	5.25	4.44	4.16	3.85
26F64	7.20	6.12	5.76	5.28
26F65	2.70	2.30	2.13	1.87
26F66	7.02	5.75	5.62	5.15
26F67	3.35	2.69	2.47	2.31
26F68	4.20	3.57	3.36	2.75
26F69	7.20	6.12	5.76	4.95
26F70	3.00	2.55	2.40	2.20
27F01	10.35	8.80	8.28	7.59
27F02	16.35	13.90	13.08	11.99
27F03	22.10	18.79	18.48	16.94
27F04	17.40	14.79	13.92	12.76
27F05	19.50	16.58	15.60	14.30
27F06	12.00	10.20	9.60	8.80
27F07	14.70	12.65	11.76	10.78
27F08	13.80	11.73	11.04	10.12
27F09	15.60	13.26	12.48	11.44
27F10	17.40	14.79	13.92	12.76
27F11	18.90	16.06	15.12	13.86
27F12	20.40	17.34	16.32	14.96
27F13	18.00	15.30	14.40	13.20
27F14	10.20	8.67	8.16	7.48
27F15	14.40	12.24	11.52	10.56
27F16	13.50	11.47	10.80	9.90
27F17	15.75	13.39	12.60	11.55
27F18	17.70	15.58	14.16	12.98
27F19	24.00	20.40	19.20	17.60
27F20	14.40	12.24	11.52	10.56
27F21	16.80	14.28	13.44	12.32
27F22	24.00	20.40	19.20	17.60
27F23	21.90	18.62	17.52	16.06
27F24	12.60	10.70	10.08	9.24
27F25	13.50	11.47	10.80	9.90
27F26	20.25	17.21	16.20	14.85
27F27	20.25	17.21	16.20	14.85
27F28	12.60	10.70	10.08	9.24
27F29	14.70	12.65	11.76	10.78
27F30	20.70	17.60	16.56	15.18
27F31	29.25	24.86	23.40	21.45
27F32	11.25	9.56	9.00	8.25
27F33	12.75	10.83	10.20	9.35
27F34	14.58	12.39	11.66	10.69
27F35	11.85	10.07	9.48	8.69
27F36	9.30	7.90	7.44	6.48
27F37	12.60	10.71	10.08	8.78
27F38	9.90	8.42	7.92	6.90
27F39	13.80	11.73	10.04	9.61
27F40	9.90	8.42	7.92	6.90
27F41	12.00	10.20	9.60	8.36
27F42	15.90	13.51	12.72	11.08
27F43	19.50	16.58	15.60	13.59
27F44	16.20	13.77	12.96	11.28
27F45	16.20	13.77	12.96	11.28
27F46	12.60	10.70	10.08	9.24
27F47	13.50	11.47	10.80	9.90
27F48	18.75	15.94	15.00	13.75
27F49	18.75	15.94	15.00	13.75
27F50	12.60	10.70	10.08	9.24
27F51	14.70	12.65	11.76	10.78
27F52	20.70	17.60	16.56	15.18
27F53	29.85	24.86	23.40	21.45
27F54	11.25	9.56	9.00	8.25
27F55	11.70	9.95	9.36	8.59
27F56	12.60	10.70	10.08	9.24
27F57	14.10	11.99	11.28	10.34
27F58	13.50	11.47	10.80	9.90
27F59	13.20	11.22	10.56	9.68
27F60	14.40	12.24	11.52	10.56
27F61	17.70	15.05	14.16	12.98
27F62	21.60	18.36	17.28	15.84
27F63	18.90	16.06	15.12	13.17
27F64	33.00	28.05	26.40	22.90
27F65	10.80	9.18	8.64	7.52
27F66	18.90	16.06	15.12	13.17
27F67	24.30	20.65	19.44	16.93
27F68	38.50	32.73	32.40	28.22
27F69	75.00	63.70	60.00	52.25
27F70	81.00	68.80	64.80	56.43
27F71	7.80	6.63	6.24	5.43
27F72	8.10	6.88	6.48	5.64
27F73	10.80	9.18	8.64	7.52
27F74	17.40	14.79	13.92	12.12
27F75	13.50	11.47	10.80	9.41
27F76	15.00	12.75	12.00	10.45
27F77	18.90	16.06	15.12	13.17
27F78	24.30	20.65	19.44	16.93
27F79	10.80	9.18	8.64	7.52
27F80	17.55	14.92	14.04	12.23
27F81	16.20	13.77	12.96	11.28
27F82	7.05	6.00	5.64	4.91
27F83	12.75	10.83	10.20	8.88
27F84	13.50	11.47	10.80	9.41
27F85	15.60	13.26	12.48	10.86
27F86	19.50	16.58	15.60	13.59
27F87	8.10	6.88	6.48	5.64
27F88	12.45	10.52	9.96	8.67
27F89	16.20	13.77	12.96	11.28
27F90	11.70	9.95	9.36	8.58
27F91	12.60	10.70	10.08	9.24
27F92	14.10	11.99	11.28	10.34
27F93	13.50	11.47	10.80	9.90
27F94	16.05	13.64	12.84	11.77
27F95	15.90	13.51	12.72	11.66
27F96	17.55	14.92	14.04	12.87
27F97	23.25	19.76	18.60	17.05
27F98	24.75	21.04	19.80	18.15
27F99	16.20	13.77	12.96	11.88
27F100	21.00	17.85	16.80	15.40
27F101	30.00	25.50	24.00	22.00
27F102	15.00	12.75	12.00	11.00
27F103	13.20	11.22	10.56	9.68
27F104	15.60	13.26	12.48	11.44
27F105	13.20	11.22	10.56	9.68
27F106	14.70	12.65	11.76	10.78
27F107	15.00	12.75	12.00	11.00
27F108	19.50	16.58	15.60	14.30
27F110	30.00	25.50	24.00	22.00
27F120	18.00	15.30	14.40	13.20
27F121	15.00	12.75	12.00	11.00
27F122	15.00	12.75	12.00	11.00
27F126	30.00	25.50	24.00	22.00
27F127	30.00	25.50	24.00	22.00
27F128	15.00	12.75	12.00	11.00
27F129	15.00	12.75	12.00	11.00
27F130	15.00	12.75	12.00	11.00
27F131	30.00	25.50	24.00	22.00
27F132	36.00	30.60	28.80	26.40
G				
G-301	7.32	6.95	6.59	6.22
G-302	7.63	7.25	6.87	6.48
G-303	8.54	8.12	7.69	7.27
G-304	8.92	8.47	8.02	7.57
G-305	9.34	8.87	8.41	7.93
G-306	9.74	9.25	8.77	8.27
G-307	11.00	10.45	9.90	9.35
G-308	11.47	10.90	10.32	9.75
G-309	13.18	12.52	11.96	11.30
G-310	14.32	13.60	12.88	12.16
G-311	18.59	17.66	16.73	15.80
G-312	19.38	18.41	17.44	16.47
G-313	23.38	22.21	21.04	19.87

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Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
G				
G-314	24.41	23.19	21.97	20.75
G-315	30.00	28.50	27.00	25.50
G-316	30.00	28.50	27.00	25.50
G-317	31.18	29.62	28.06	26.50
G-318	7.32	6.95	6.58	6.21
G-319	8.54	8.11	7.68	7.25
G-320	11.00	10.45	9.90	9.35
G-321	12.23	11.62	11.01	10.40
G-322	14.41	13.69	12.97	12.25
G-323	16.59	15.77	14.95	14.13
G-324	20.86	19.82	18.78	17.74
G-325	26.77	25.43	24.09	22.75
G-326	3.62	3.44	3.26	3.08
G-327	4.15	3.94	3.73	3.53
G-328	4.86	4.62	4.37	4.13
G-329	5.31	5.04	4.78	4.51
G-330	6.26	5.95	5.63	5.32
G-331	7.79	7.40	7.01	6.62
G-332	4.15	3.94	3.74	3.53
G-333	5.31	5.04	4.78	4.51
G-334	6.26	5.95	5.63	5.32
G-335	7.79	7.40	7.01	6.62
G-336	3.60	3.42	3.24	3.06
G-337	4.13	3.92	3.72	3.61
G-338	4.82	4.58	4.34	4.10
G-339	5.27	5.01	4.74	4.48
G-340	6.21	5.90	5.59	5.28
G-341	7.44	7.07	6.70	6.32
G-342	6.45	6.13	5.80	5.48
G-343	7.41	7.04	6.67	6.30
G-344	8.62	8.19	7.76	7.13
G-345	13.33	12.66	11.98	11.33
G-346	17.64	16.76	15.88	14.99
G-347	24.26	23.05	21.83	20.62
G-348	28.55	27.12	25.70	24.27
GEO				
GEO-1	17.55	14.92	14.04	12.87
GEO-2	22.05	18.74	17.64	16.17
GEO-3	22.50	19.15	18.00	16.50
GEO-4	22.05	18.74	17.64	16.17
GEO-5	19.05	16.19	15.24	13.97
GEO-6	19.05	16.19	15.24	13.97
GEO-7	25.20	21.42	20.16	18.48
GEO-8	19.05	16.19	15.24	13.97
GEO-9	25.20	21.42	20.16	18.48
GEO-10	18.00	15.30	14.40	13.20
GEO-11	17.55	14.92	14.04	12.87
GEO-12	30.00	25.50	24.00	22.00
GEO-13	22.50	19.15	18.00	16.50
GEO-14	19.50	16.58	15.60	14.30
GEO-15	17.55	14.92	14.04	12.87
GEO-16	17.55	14.92	14.04	12.87
GEO-17	17.25	14.66	13.80	12.65
GEO-18	17.25	14.66	13.80	12.65
GEO-19	17.25	14.66	13.80	12.65
GEO-20	17.25	14.66	13.80	12.65
GEO-21	17.55	14.92	14.04	12.87
GEO-22	17.55	14.92	14.04	12.87
GEO-23	19.05	18.74	17.64	16.17
GEO-24	19.05	16.19	15.24	13.97
GEO-25	25.05	21.29	20.04	18.37
GEO-26	19.05	16.19	15.24	13.97
GEO-27	15.00	12.75	12.00	11.00
GEO-28	14.70	12.65	11.76	10.78
GEO-29	17.55	14.92	14.04	12.87
GEO-30	16.95	14.41	13.56	12.43
GEO-31	16.95	14.41	13.56	12.43
GEO-32	17.55	14.92	14.04	12.87
GEO-33	17.55	14.92	14.04	12.87
GEO-34	17.55	14.92	14.04	12.87
GEO-35	17.55	14.92	14.04	12.87
GEO-36	18.60	15.81	14.88	13.64
GEO-37	18.60	15.81	14.88	13.64
GEO-38	18.60	15.81	14.88	13.64
GEO-39	18.60	15.81	14.88	13.64
GEO-40	23.25	19.76	18.60	17.05
GEO-41	15.00	12.75	12.00	11.00
GEO-42	14.70	12.65	11.76	10.78
GEO-43	14.70	12.65	11.76	10.78
GEO-44	17.55	14.92	14.04	12.87
GEO-45	17.55	14.92	14.04	12.87
GEO 46	16.95	14.41	13.56	12.43
GEO-47	16.95	14.41	13.56	12.43
GEO-48	17.55	14.92	14.04	12.87
GEO-49	19.05	16.19	15.24	13.97
GEO-50	22.50	19.15	18.00	16.50
GEO-51	18.45	15.68	14.76	13.53
GEO-52	18.45	15.68	14.76	13.53
GEO-53	18.30	15.55	14.64	13.42
GEO-54	18.30	15.55	14.64	13.42
GEO-55	18.30	15.55	14.64	13.42
GEO-56	21.75	18.49	17.40	15.95
GEO-57	19.05	16.19	15.24	13.97
GEO-58	19.05	16.19	15.24	13.97
GEO-59	19.80	16.83	15.84	14.52
GEO-60	22.50	19.15	18.00	16.50
GEO-61	18.00	15.30	14.40	13.20
GEO-62	18.00	15.30	14.40	13.20
GEO-63	15.75	13.39	12.60	11.55
GEO-64	17.25	14.66	13.80	12.65
GEO-65	17.25	14.66	13.80	12.65
GEO-66	16.95	14.41	13.56	12.43
GEO-67	16.95	14.41	13.56	12.43
GEO-68	21.00	17.85	16.80	15.40
GEO-69	21.00	17.85	16.80	15.40
GEO-70	23.25	19.76	18.60	17.05
GEO-71	28.05	23.84	22.44	20.57
GEO-72	21.00	17.85	16.80	15.40
GEO-73	21.00	17.85	16.80	15.40
GEO-74	21.00	17.85	16.80	15.40
GEO-75	21.00	17.85	16.80	15.40
GEO-76	21.00	17.85	16.80	15.40
GEO-77	21.00	17.85	16.80	15.40
GEO-78	18.00	15.30	14.40	13.20
GEO-79	21.75	18.49	17.40	15.95
GEO-80	18.00	15.30	14.40	13.20
GEO-81	16.05	13.64	12.84	11.77
GEO-82	21.90	18.62	17.52	16.06
GEO-83	23.25	19.76	18.60	17.05
GEO-84	24.00	20.40	19.20	17.60
GEO-85	23.25	19.76	18.60	17.05
GEO-86	23.25	19.76	18.60	17.05
GEO-87	23.25	19.76	18.60	17.05
M				
21M50	3.75	3.19	3.00	2.75
21M51	13.50	11.48	10.80	9.90
21M52	6.00	5.10	4.80	4.40
21M53	6.00	5.10	4.80	4.40
21M54	9.30	7.90	7.44	6.82
21M55	2.40	2.04	1.92	1.76
21M56	12.00	10.20	9.60	8.80
21M58	21.00	17.85	16.80	15.40
21M59	2.40	2.04	1.92	1.76
21M60	24.00	20.04	19.20	17.60
21M60A	9.60	8.16	7.68	7.04
21M61	30.00	25.50	24.00	22.00
21M61A	13.50	11.48	10.80	9.90
21M62	5.40	4.60	4.32	3.96
21M62A	18.00	15.00	14.40	13.20
21M63	4.05	3.45	3.24	2.97
21M64	96.00	81.60	76.80	70.40
21M65	105.00	89.20	84.00	77.00
21M66	22.50	19.10	18.00	16.50
21M67	5.25	4.46	4.20	3.85
21M68	4.80	4.08	3.84	3.52
21M69	15.00	12.75	12.00	11.00
21M71	10.50	8.92	8.40	7.70
21M72	13.50	11.48	10.80	9.90
21M73	2.40	2.04	1.92	1.76
21M74	3.60	3.06	2.88	2.64
21M75	4.20	3.57	3.36	3.08
21M76	4.80	4.08	3.84	3.52

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

M

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
21M77	12.00	10.20	9.60	8.80
25M76	54.00	46.00	43.20	39.60
25M77	96.00	81.60	76.80	70.40
25M78	45.00	38.20	36.00	33.00
25M79	120.00	102.00	96.00	88.00
25M80	225.00	191.25	180.00	165.00

MI-T

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
MI-T1	9.00	7.65	7.20	6.60
MI-T2	9.00	7.65	7.20	6.60
MI-T3	13.50	11.47	10.80	9.90
MI-T4	7.50	6.38	6.00	5.50
MI-T5	9.00	7.65	7.20	6.60
MI-T6	12.00	10.20	9.60	8.80
MI-T7	7.50	6.38	6.00	5.50
MI-T8	7.50	6.38	6.00	5.50
MI-T9	12.00	10.20	9.60	8.80
MI-T10	7.50	6.38	6.00	5.50
MI-T11	7.50	6.38	6.00	5.50
MI-T12	12.00	10.20	9.60	8.80
MI-T13	9.00	7.65	7.20	6.60
MI-T14	10.50	8.92	8.40	7.70
MI-T15	13.50	11.47	10.80	9.90
MI-T16	7.50	6.38	6.00	5.50
MI-T17	7.50	6.38	6.00	5.50
MI-T18	12.00	10.20	9.60	8.80
MI-T19	6.30	5.36	5.04	4.62
MI-T20	10.50	8.92	8.40	7.70
MI-T21	9.00	7.65	7.20	6.60
MI-T22	9.00	7.65	7.20	6.60
MI-T23	12.00	10.20	9.60	8.80
MI-T24	6.60	5.61	5.28	4.84
MI-T25	7.50	6.38	6.00	5.50
MI-T26	12.00	10.20	9.60	8.80
MI-T27	6.00	5.10	4.80	4.40
MI-T28	7.50	6.38	6.00	5.50
MI-T29	12.00	10.20	9.60	8.80
MI-T30	9.00	7.65	7.20	6.60
MI-T31	9.00	7.65	7.20	6.60
MI-T32	13.50	11.48	10.80	9.90
MI-T33	6.90	5.87	5.52	5.06
MI-T34	7.50	6.38	6.00	5.50
MI-T35	12.00	10.20	9.60	8.80
MI-T36	7.50	6.38	6.00	5.50
MI-T37	9.00	7.65	7.20	6.60
MI-T38	12.00	10.20	9.60	8.80
MI-T39	6.00	5.10	4.80	4.40
MI-T40	10.50	8.92	8.40	7.70
MI-T41	7.50	6.38	6.00	5.50
MI-T42	7.50	6.38	6.00	5.50
MI-T43	10.50	8.92	8.40	7.70
MI-T44	6.75	5.74	5.40	4.95
MI-T45	8.25	7.01	6.60	6.05
MI-T46	11.25	9.56	9.00	8.25
MI-T47	6.00	5.10	4.80	4.40
MI-T48	7.50	6.38	6.00	5.50
MI-T49	9.75	8.29	7.80	7.15
MI-T50	7.50	6.38	6.00	5.50
MI-T51	9.00	7.65	7.20	6.60
MI-T52	12.00	10.20	9.60	8.80
MI-T53	7.50	6.38	6.00	5.50
MI-T54	9.00	7.65	7.20	6.60
MI-T55	10.50	8.92	8.40	7.70
MI-T56	7.50	6.38	6.00	5.50
MI-T57	7.50	6.38	6.00	5.50
MI-T58	10.50	8.92	8.40	7.70
MI-T59	7.50	6.38	6.00	5.50
MI-T60	7.50	6.38	6.00	5.50
MI-T61	10.50	8.92	8.40	7.70
MI-T62	7.50	6.38	6.00	5.50
MI-T63	7.50	6.38	6.00	5.50
MI-T64	9.00	7.65	7.20	6.60
MI-T65	6.00	5.10	4.80	4.40
MI-T66	9.00	7.65	7.20	6.60
MI-T67	4.05	3.44	3.24	2.82
MI-T68	7.50	6.38	6.00	5.50
MI-T69	7.50	6.38	6.00	5.50
MI-T70	4.50	3.82	3.60	3.14
MI-T71	7.50	6.38	6.00	5.50
MI-T72	7.50	6.38	6.00	5.50
MI-T73	3.75	3.19	3.00	2.61
MI-T74	7.50	6.38	6.00	5.50
MI-T75	7.50	6.38	6.00	5.50
MI-T76	3.45	2.93	2.76	2.40
MI-T77	7.50	6.38	6.00	5.50
MI-T78	7.50	6.38	6.00	5.50
MI-T79	3.75	3.19	3.00	2.61
MI-T80	6.75	5.74	5.40	4.95
MI-T81	8.25	7.01	6.60	6.05
MI-T82	3.60	3.06	2.88	2.64
MI-T83	6.75	5.74	5.40	4.95
MI-T84	9.00	7.65	7.20	6.60
MI-T85	6.75	5.74	5.40	4.95
MI-T86	7.80	6.63	6.24	5.72
MI-T87	9.00	7.65	7.20	6.60
MI-T88	6.00	5.10	4.80	4.40
MI-T89	6.75	5.74	5.40	4.95
MI-T90	7.50	6.38	6.00	5.50
MI-T91	6.00	5.10	4.80	4.40
MI-T92	7.50	6.38	6.00	5.50
MI-T93	9.00	7.65	7.20	6.60
MI-T94	3.60	3.06	2.88	2.64
MI-T95	7.50	6.38	6.00	5.50
MI-T96	9.00	7.65	7.20	6.60
MI-T97	7.50	6.38	6.00	5.50
MI-T98	7.50	6.38	6.00	5.50
MI-T99	9.00	7.65	7.20	6.60
MI-T100	3.00	2.55	2.40	2.20
MI-T101	6.00	5.10	4.80	4.40
MI-T102	6.00	5.10	4.80	4.40
MI-T103	9.00	7.65	7.20	6.60
MI-T104	9.00	7.65	7.20	6.60
MI-T105	10.50	8.93	8.40	7.70
MI-T106	9.00	7.65	7.20	6.60
MI-T107	8.25	7.01	6.60	6.05
MI-T108	10.50	8.93	8.40	7.70
MI-T109	6.90	5.87	5.52	5.06
MI-T110	7.50	6.38	6.00	5.50
MI-T111	9.00	7.65	7.20	6.60
MI-T112	5.40	4.59	4.32	3.96
MI-T113	6.00	5.10	4.80	4.40
MI-T114	7.50	6.38	6.00	5.50
MI-T115	6.90	5.87	5.52	5.06
MI-T116	7.50	6.38	6.00	5.50
MI-T117	9.00	7.65	7.20	6.60
MI-T118	8.10	6.88	6.48	5.94
MI-T119	8.10	6.88	6.48	5.94
MI-T120	10.50	8.93	8.40	7.70
MI-T121	7.50	6.38	6.00	5.50
MI-T122	7.50	6.38	6.00	5.50
MI-T123	10.50	8.93	8.40	7.70
MI-T124	7.50	6.38	6.00	5.50
MI-T125	9.00	7.65	7.20	6.60
MI-T126	10.50	8.93	8.40	7.70
MI-T127	6.90	5.87	5.52	5.06
MI-T128	9.00	7.65	7.20	6.60
MI-T129	9.00	7.65	7.20	6.60
MI-T130	4.50	3.82	3.60	3.30
MI-T131	6.00	5.10	4.80	4.40
MI-T132	7.50	6.38	6.00	5.50
MI-T133	7.50	6.38	6.00	5.50
MI-T134	7.50	6.38	6.00	5.50
MI-T135	9.00	7.65	7.20	6.60
MI-T136	7.50	6.38	6.00	5.50
MI-T137	9.00	7.65	7.20	6.60
MI-T138	10.50	8.93	8.40	7.70
MI-T139	2.70	2.30	2.16	1.88
MI-T140	2.70	2.30	2.16	1.88
MI-T141	3.30	2.80	2.64	2.30
MI-T142	3.00	2.55	2.40	2.09
MI-T143	2.94	2.50	2.35	2.05
MI-T144	2.94	2.50	2.35	2.05
MI-T145	2.70	2.30	2.16	1.88
MI-T146	3.60	3.06	2.88	2.51
MI-T147	3.30	2.80	2.64	2.42

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

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MI-T

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
MI-T148	3.45	2.93	2.76	2.53
MI-T149	3.30	2.80	2.64	2.42
MI-T150	3.30	2.80	2.64	2.42
MI-T151	2.70	2.30	2.16	1.98
MI-T152	2.70	2.30	2.16	1.98
MI-T153	3.75	3.19	3.00	2.75
MI-T154	3.75	3.19	3.00	2.75
MI-T155	3.75	3.19	3.00	2.75
MI-T156	3.75	3.19	3.00	2.75
MI-T157	3.60	3.06	2.88	2.64
MI-T158	3.75	3.19	3.00	2.75
MI-T159	3.45	2.93	2.76	2.53
MI-T160	3.60	3.06	2.88	2.64
MI-T161	3.60	3.06	2.88	2.64
MI-T162	3.60	3.06	2.88	2.64
MI-T163	3.45	2.93	2.76	2.53
MI-T164	3.60	3.06	2.88	2.64
MI-T165	3.45	2.93	2.76	2.53
MI-T166	3.60	3.06	2.88	2.64
MI-T167	3.60	3.06	2.88	2.64
MI-T168	3.00	2.55	2.40	2.20
MI-T200	6.00	5.10	4.80	4.18
MI-T201	5.40	4.59	4.32	3.76
MI-T202	4.80	4.08	3.84	3.34
MI-T203	4.80	4.08	3.84	3.34
MI-T204	4.80	4.08	3.84	3.34
MI-T205	4.80	4.08	3.84	3.34
MI-T206	5.40	4.59	4.32	3.76
MI-T207	6.00	5.10	4.80	4.18
MI-T208	4.35	3.70	3.48	3.03
MI-T209	5.94	5.05	4.75	4.14
MI-T210	6.00	5.10	4.80	4.18
MI-T211	6.00	5.10	4.80	4.18
MI-T212	5.10	4.33	4.08	3.55
MI-T213	5.10	4.33	4.08	3.55
MI-T214	5.40	4.59	4.32	3.76
MI-T215	5.40	4.59	4.32	3.76
MI-T216	5.40	4.59	4.32	3.76
MI-T217	5.40	4.59	4.32	3.76
MI-T218	5.70	4.84	4.56	3.97
MI-T219	5.40	4.59	4.32	3.76
MI-T220	5.40	4.59	4.32	3.76
MI-T221	5.40	4.59	4.32	3.76
MI-T222	5.40	4.59	4.32	3.76
MI-T223	6.15	5.23	4.92	4.28
MI-T224	6.75	5.73	5.40	4.70
MI-T225	6.45	5.49	5.16	4.50
MI-T226	5.10	4.33	4.08	3.55
MI-T227	4.35	3.70	3.48	3.03
MI-T228	4.35	3.70	3.48	3.03
MI-T229	5.10	4.33	4.08	3.55
MI-T230	5.10	4.33	4.08	3.55
MI-T231	5.40	4.59	4.32	3.76
MI-T232	5.40	4.59	4.32	3.76
MI-T233	5.40	4.59	4.32	3.76
MI-T234	5.40	4.59	4.32	3.76
MI-T235	5.55	4.72	4.44	3.87
MI-T236	6.75	5.74	5.40	4.70
MI-T237	7.05	6.00	5.64	4.91
MI-T238	7.05	6.00	5.64	4.91
MI-T239	7.05	6.00	5.64	4.91
MI-T240	7.50	6.38	6.00	5.22
MI-T241	6.75	5.74	5.40	4.70
MI-T242	6.75	5.74	5.40	4.70
MI-T243	6.75	5.74	5.40	4.70
MI-T244	6.75	5.74	5.40	4.70
MI-T245	6.90	5.87	5.52	4.81
MI-T246	7.65	6.50	6.12	5.33
MI-T247	7.35	6.24	5.88	5.12
MI-T248	7.20	6.12	5.76	5.02
MI-T249	7.20	6.12	5.76	5.02
MI-T250	5.25	4.46	4.20	3.66
MI-T251	6.00	5.10	4.80	4.18
MI-T252	5.40	4.59	4.32	3.76
MI-T253	6.15	5.23	4.92	4.28

P

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
21P47	60.00	51.00	48.00	44.00
21P48	18.00	15.30	14.40	13.20
21P49	15.00	12.75	12.00	11.00
21P50	12.00	10.20	9.60	8.80
21P51	10.50	8.92	8.40	7.70
21P52	12.75	10.83	10.20	9.35
21P53	18.00	15.30	14.40	13.20
21P65	13.50	11.48	10.80	9.90
21P66	18.00	15.30	14.40	13.20
21P67	18.00	15.30	14.40	13.20
21P68	37.50	31.90	30.00	27.50
21P69	24.00	20.40	19.20	17.60
21P70	42.00	35.70	33.60	30.80
21P71	42.00	35.70	33.60	30.80
21P72	45.00	38.20	36.00	33.00
21P73	7.20	6.12	5.76	5.24
21P75	225.00	191.25	180.00	165.00
21P76	9.30	7.90	7.44	6.82
21P77	120.00	102.00	96.00	88.00
21P78	22.50	19.13	18.00	16.50
21P79	72.00	61.20	57.60	52.40
21P80	13.50	11.48	10.80	9.90
21P81	120.00	102.00	96.00	88.00
21P82	127.50	108.00	102.00	93.50
21P83	87.00	74.00	69.60	63.80
21P84	13.50	11.48	10.80	9.90
21P85	58.50	49.70	46.80	32.90
21P86	13.50	11.48	10.80	9.90
21P87	18.00	15.30	14.40	13.20
21P88	18.00	15.30	14.40	13.20
21P89	10.50	8.92	8.40	7.70
21P90	25.50	21.68	20.40	18.70
21P91	60.00	51.00	48.00	44.00
21P92	22.50	19.13	18.00	16.50
21P93	27.00	22.95	21.60	19.80
21P94	27.00	22.95	21.60	19.80
21P95	27.00	22.95	21.60	19.80
21P96	120.00	102.00	96.00	88.00
24P79	225.00	191.25	180.00	165.00
25P65	13.50	11.48	10.80	9.90
25P66	21.60	18.36	17.28	15.84
25P67	27.00	22.95	21.60	19.00
25P68	32.40	27.54	25.92	22.57
25P82	21.60	18.36	17.28	15.84
25P83	21.60	18.36	17.28	15.84
25P84	81.00	68.80	64.80	59.40
25P85	36.00	30.60	28.80	26.40
25P86	87.00	74.00	69.60	63.80
25P87	105.00	89.20	84.00	77.00
25P88	150.00	127.50	120.00	110.00
25P89	150.00	127.50	120.00	110.00
25P90	300.00	255.00	240.00	220.00
25P92	15.90	13.85	13.06	11.10
25P93	24.00	20.40	19.20	16.72
25P94	30.00	25.50	24.00	21.00
25P95	36.00	30.60	28.80	25.10
25P96	48.00	40.80	38.40	35.20
25P97	51.00	43.30	40.80	37.40
27P30	24.00	20.40	19.20	16.72
27P31	27.00	22.95	21.60	18.80
27P32	30.00	25.50	24.00	21.00
27P33	33.00	27.05	25.40	23.00
27P34	33.00	27.05	25.40	23.00
27P35	36.00	30.60	28.80	25.10
27P36	48.00	40.80	38.40	33.50
27P37	72.00	61.20	57.60	51.00
27P38	72.00	61.20	57.60	51.00
27P39	37.50	31.90	30.00	27.50
27P40	37.50	31.90	30.00	27.50

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
R				
22R00	5.70	4.85	4.60	4.18
22R01	7.02	5.97	5.62	4.60
22R02	7.00	5.90	5.50	5.10
22R03	25.50	21.60	20.40	18.70
22R04	7.20	6.15	5.75	5.30
22R05	10.20	7.65	7.20	6.60
22R05U	10.20	7.65	7.20	6.60
22R06	10.20	7.65	7.20	6.60
22R07	12.60	10.70	10.00	9.30
22R08	6.00	5.10	4.80	4.00
22R09	6.60	5.60	5.10	4.20
22R10	10.20	7.65	7.20	6.60
22R11	8.40	7.15	6.70	6.20
22R12	5.40	4.00	3.70	3.30
22R13	5.52	4.69	4.42	4.05
22R14	21.00	17.85	16.80	15.40
22R15	15.00	12.75	12.00	11.00
22R16	12.00	10.30	9.60	8.80
22R17	17.10	14.50	13.70	12.60
22R18	5.70	4.85	4.60	4.20
22R19	6.30	5.35	5.00	4.70
22R20	6.00	5.10	4.80	4.40
22R21	13.50	11.50	10.80	9.90
22R22	6.00	5.10	4.80	4.40
22R23	4.80	4.10	3.80	3.60
22R24	10.50	8.90	8.40	7.70
22R25	4.80	4.10	3.80	3.60
22R26	6.00	5.10	4.80	4.40
22R27	5.00	4.25	4.00	3.70
22R28	6.50	5.50	5.20	4.30
22R29	6.90	5.10	4.80	4.40
22R30	6.60	5.70	5.30	4.90
22R31	9.00	7.65	7.20	6.60
22R32	10.20	8.70	8.00	7.50
22R33	13.50	11.40	10.80	9.90
22R34	13.50	11.40	10.80	9.90
22R35	16.50	14.00	13.20	12.20
22R36	12.75	10.80	10.20	9.35
22R37	5.70	4.85	4.60	4.20
22R38	6.90	5.90	5.50	5.10
22R39	2.55	2.16	2.04	1.87
22R40	12.00	10.20	9.60	8.80
22R41	4.50	3.80	3.60	3.30
22R42	8.00	6.80	6.40	5.00
22R43	10.50	8.90	8.40	7.70
22R44	6.00	5.10	4.80	4.40
22R45	10.50	8.90	8.40	7.70
22R46	10.50	8.90	8.40	7.70
22R47	7.50	6.38	6.00	5.22
	5.40	4.60	4.30	4.00
22R49	16.50	14.00	13.20	12.10
22R50	6.00	5.10	4.80	4.40
22R51	22.50	19.00	18.00	16.50
22R52	3.60	3.06	2.88	2.64
22R53	6.00	5.10	4.80	4.40
22R54	6.00	5.10	4.80	4.40
22R55	3.30	2.80	2.64	2.42
22R56	24.00	20.40	19.20	17.60
22R57	3.00	2.55	2.40	2.00
22R58	30.00	25.50	24.00	22.00
22R59	22.50	19.00	18.00	16.50
22R60	16.20	13.76	12.96	11.88
22R61	3.45	2.95	2.75	2.55
22R63	6.00	5.10	4.80	4.40
22R64	13.50	11.50	10.80	9.90
22R65	13.50	11.50	10.80	9.90
22R66	13.50	11.50	10.80	9.90
22R67	4.65	3.95	3.70	3.40
22R68	10.50	8.90	8.40	7.70
22R69	3.90	3.30	3.10	2.85
22R70	4.80	4.00	3.50	3.00
22R71	8.68	6.00	5.50	5.20
22R72	3.75	3.18	3.00	2.75
22R73	4.65	3.95	3.70	3.40
22R74	4.50	3.80	3.60	3.30
22R75	4.95	4.15	3.80	3.60
22R76	4.95	4.15	3.80	3.60
22R77	6.75	5.75	5.40	4.95
22R78	6.75	5.75	5.40	4.95
22R79	4.20	3.60	3.35	3.10
22R80	4.50	3.80	3.60	3.30
22R81	6.00	5.10	4.80	4.40
22R82	6.00	5.10	4.80	4.40
22R83	6.60	5.60	5.25	4.85
22R84	4.50	3.80	3.60	3.30
22R85	6.00	5.10	4.80	4.40
22R86	6.00	5.10	4.80	4.40
22R87	12.00	10.20	9.60	8.80
22R88	12.00	10.20	9.60	8.80
22R89	7.50	6.40	6.00	5.50
22R90	6.00	5.10	4.80	4.40
22R91	6.00	5.10	4.80	4.40
22R92	6.60	5.60	5.30	4.90
22R93	6.60	5.60	5.30	4.90
22R94	6.60	5.60	5.30	4.90
22R95	6.60	5.60	5.30	4.90
22R96	7.50	6.40	6.00	5.50
22R97	7.50	6.40	6.00	5.50
22R98	8.25	7.00	6.60	6.00
22R99	8.25	7.00	6.60	6.00
22R101	12.00	10.20	9.60	8.80
22R102	12.75	10.83	10.20	9.35
22R103	12.00	10.20	9.60	8.80
22R104	12.75	10.83	10.20	9.35
22R105	15.00	12.75	12.00	11.00
22R106	12.75	10.83	10.20	9.35
22R107	12.75	10.83	10.20	9.35
22R108	12.00	10.20	9.60	8.80
22R109	6.60	5.60	5.25	4.90
22R110	15.00	12.75	12.00	11.00
22R111	10.50	8.90	8.40	7.70
22R112	15.00	12.75	12.00	11.00
22R113	15.00	12.75	12.00	11.00
22R114	18.00	15.30	14.40	13.20
24R00	4.95	4.21	3.96	3.63
24R00U	4.80	4.08	3.84	3.52
24R01	4.95	4.21	3.96	3.63
24R01U	4.95	4.21	3.96	3.63
24R02	6.51	5.53	5.21	4.77
24R02U	6.51	5.53	5.21	4.77
24R03	12.00	10.20	9.60	8.80
24R04	7.05	5.99	5.64	5.17
24R04U	7.05	5.99	5.64	5.17
24R05	7.65	6.50	6.12	5.61
24R05U	7.65	6.50	6.12	5.61
24R06	10.80	9.18	8.64	7.92
24R06U	10.80	9.18	8.64	7.92
24R07	10.80	9.18	8.64	7.92
24R07U	10.80	9.18	8.64	7.92
24R08	5.25	4.46	4.20	3.85
24R08U	5.25	4.46	4.20	3.85
24R09	5.55	4.72	4.44	4.07
24R09U	5.55	4.72	4.44	4.07
24R10	5.55	4.72	4.44	4.07
24R11	4.05	3.44	3.24	2.97
24R11U	4.05	3.44	3.24	2.97
24R12	4.80	4.08	3.84	3.52
24R12U	4.80	4.08	3.84	3.52
24R13	6.15	5.23	4.92	4.51
24R13U	6.15	5.23	4.92	4.51
24R14	12.75	10.83	10.20	9.35
24R15	13.05	10.59	10.44	9.57
24R16	4.35	3.70	3.48	3.19
24R17	7.35	6.24	5.88	5.39
24R18	10.50	8.93	8.40	7.70
24R19	4.80	4.08	3.84	3.52
24R19U	4.80	4.08	3.84	3,52
24R20	7.35	6.24	5.88	5.39
24R20U	7.35	6.24	5.88	5.39
24R21	6.45	5.48	5.16	4.73
24R21U	6.45	5.48	5.16	4.73
24R22	8.10	6.88	6.48	5.94
24R22U	7.80	6.63	6.24	5.72
24R23	10.50	8.93	8.40	7.70

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EFFECTIVE APRIL 1, 1963 — **Form I-463**

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Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
R				
24R24	11.25	9.56	9.00	8.25
24R25	9.00	7.65	7.20	6.60
24R26	9.75	8.29	7.80	7.15
24R26U	9.75	8.29	7.80	7.15
24R27	11.85	10.07	9.48	8.69
24R28	13.50	11.48	10.80	9.90
24R29	15.00	12.75	12.00	11.00
24R30	9.45	8.03	7.56	6.93
24R31	18.75	15.94	15.00	13.75
24R32	18.75	15.94	15.00	13.75
24R33	6.30	5.36	5.04	4.62
24R34	7.20	6.12	5.76	5.28
24R35	9.15	7.78	7.33	6.71
24R36	9.75	8.29	7.80	7.15
24R37	15.00	12.75	12.00	11.00
24R38	12.00	10.20	9.60	8.80
24R39	12.00	10.20	9.60	8.80
24R40	6.30	5.36	5.04	4.62
24R40U	6.30	5.36	5.04	4.62
24R41	6.75	5.74	5.40	4.70
24R42	10.20	8.67	8.16	7.11
24R43	6.45	5.48	5.16	4.50
24R44	6.75	5.74	5.40	4.70
24R45	10.50	8.93	8.40	7.70
24R48	11.10	9.44	8.88	8.14
24R49	11.25	9.56	9.00	8.25
24R50	4.50	3.82	3.60	3.30
24R51	4.50	3.82	3.60	3.30
24R52	5.25	4.46	4.20	3.85
24R53	5.25	4.46	4.20	3.85
24R54	6.00	5.10	4.80	4.40
24R55	5.85	4.97	4.68	4.29
24R56	7.35	6.24	5.88	5.39
24R57	7.20	6.12	5.76	5.28
24R58	6.90	5.87	5.52	5.06
24R59	6.75	5.74	5.40	4.95
24R60	8.55	7.26	6.84	6.26
24R61	8.55	7.26	6.84	6.26
24R62	9.75	8.29	7.80	7.15
24R63	9.75	8.29	7.80	7.15
24R64	10.95	9.31	8.76	8.03
24R65	10.95	9.31	8.76	8.03
24R66	9.00	7.65	7.20	6.60
24R67	3.60	3.06	2.88	2.64
24R68	5.70	4.84	4.56	3.97
24R69	5.25	4.46	4.20	3.85
24R70	5.10	4.33	4.08	3.74
24R71	4.35	3.70	3.48	3.19
24R72	3.00	2.55	2.40	*2.20
24R73	6.00	5.10	4.80	4.40
24R74	7.50	6.38	6.00	5.50
24R75	14.25	12.11	11.40	10.45
24R76	12.75	10.83	10.20	9.35
24R77	8.40	7.14	6.72	6.16
24R78	12.75	10.83	10.20	9.35
24R79	16.50	14.03	13.20	12.10
24R80	6.75	5.74	5.40	4.95
24R81	6.60	5.61	5.28	4.84
24R82	8.10	6.88	6.48	5.94
24R83	9.75	8.29	7.80	7.15
24R84	12.00	10.20	9.60	8.80
24R85	12.45	10.52	9.96	9.13
24R86	21.60	18.36	17.28	15.40
24R87	7.50	6.38	6.00	5.50
24R88	4.50	3.82	3.60	3.30
24R89	3.75	3.19	3.00	2.75
24R90	3.90	3.32	3.12	2.86
24R91	7.20	6.12	5.76	5.28
24R92	12.00	10.20	9.60	8.80
24R93	6.75	5.74	5.40	4.95
24R94	22.50	19.13	18.00	16.50
24R95	9.75	8.29	7.80	7.15
24R96	5.25	4.46	4.20	3.85
24R97	16.50	14.03	13.20	12.10
24R98	12.75	10.83	10.20	9.35
24R100	10.95	9.31	8.76	8.03
24R101	10.95	9.31	8.76	8.03
24R102	10.95	9.31	8.76	8.03
24R103	9.45	8.03	7.56	6.93
24R104	10.50	8.93	8.40	7.70
24R105	10.50	8.93	8.40	7.70
24R107	2.70	2.30	2.16	1.98
24R108	6.30	5.36	5.04	4.62
24R109	4.35	3.70	3.48	3.19
24R111	6.00	5.10	4.80	4.40
24R112	6.00	5.10	4.80	4.40
24R113	6.30	5.36	5.04	4.62
24R115	3.00	2.55	2.40	2.20
24R116	9.30	7.90	7.44	6.82
24R117	18.00	15.30	14.40	13.20
24R118	9.30	7.90	7.44	6.82
24R119	6.30	5.36	5.04	4.62
24R120	7.80	6.43	6.04	5.72
24R121	7.80	6.43	6.04	5.72
24R122	15.00	12.75	12.00	11.00
24R123	9.30	7.90	7.44	6.82
24R125	6.00	5.10	4.80	4.40
24R127	6.00	5.10	4.80	4.40
24R128	9.60	8.16	7.68	7.04
24R129	9.60	8.16	7.68	7.04
24R130	9.30	7.90	7.44	6.82
24R131	9.30	7.90	7.44	6.82
24R132	9.60	8.16	7.68	7.04
24R134	18.00	15.30	14.40	13.20
24R135	18.00	15.30	14.40	13.20
24R137	15.00	12.75	12.00	11.00
24R138	15.00	12.75	12.00	11.00
24R140	15.00	12.75	12.00	11.00
24R141	18.00	15.30	14.40	13.20
24R142	18.00	15.30	14.40	13.20
24R143	18.00	15.30	14.40	13.20
25R01	7.50	6.38	6.00	5.50
25R02	7.50	6.38	6.00	5.50
25R03	9.00	7.65	7.20	6.60
25R04	9.00	7.65	7.20	6.60
25R05	10.50	8.93	8.40	7.70
25R06	10.50	8.93	8.40	7.70
25R07	8.25	7.01	6.60	6.05
25R08	12.00	10.20	9.60	8.80
25R09	15.75	13.39	12.60	11.55
25R10	15.75	13.39	12.60	11.55
25R11	20.25	17.21	16.20	14.85
25R12	9.00	7.65	7.20	6.60
25R13	9.75	8.29	7.80	7.15
25R14	26.25	22.31	21.00	19.25
25R15	25.50	21.68	20.40	18.70
25R16	10.50	8.93	8.40	7.70
25R17	13.50	11.48	10.80	9.90
25R18	15.00	12.75	12.00	11.00
25R19	15.00	12.75	12.00	11.00
25R20	22.50	19.13	18.00	16.50
25R21	10.20	8.67	8.16	7.48
25R22	9.00	7.65	7.20	6.60
25R23	11.25	9.56	9.00	8.25
25R24	11.25	9.56	9.00	8.25
25R26	13.50	11.48	10.80	9.90
25R27	12.75	10.83	10.20	9.35
25R28	13.50	11.48	10.80	9.90
25R29	15.00	12.75	12.00	11.00
25R30	12.00	10.20	9.60	8.80
25R31	17.25	14.66	13.80	12.65
25R32	20.25	17.21	16.20	14.85
25R33	21.60	18.36	17.28	15.40
25R34	30.00	25.50	24.00	22.00
25R35	13.50	11.48	10.80	9.90
25R36	13.50	11.48	10.80	9.90
25R37	15.00	12.75	12.00	11.00
25R38	18.00	15.30	14.40	13.20
25R39	22.50	19.13	18.00	16.50
25R40	22.50	19.13	18.00	16.50
25R41	30.00	25.50	24.00	22.00
25R42	15.00	12.75	12.00	11.00
25R43	16.50	14.03	13.20	12.10
25R44	10.80	9.18	8.64	7.53

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EFFECTIVE APRIL 1, 1963 — **Form I-463**

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Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
R				
25R45	10.80	9.18	8.64	7.53
25R46	18.90	16.06	15.12	13.17
25R47	22.50	19.13	18.00	15.67
25R48	22.50	19.13	18.00	15.67
25R50	12.90	10.97	10.32	8.99
25R51	18.90	16.06	15.12	13.17
25R56	7.50	6.38	6.00	5.22
25R57	4.65	3.95	3.72	3.24
25R58	3.27	2.80	2.62	2.28
27R01	12.00	10.20	9.60	8.36
27R02	16.20	13.77	12.96	11.28
27R03	18.30	15.55	14.64	12.75
27R04	18.90	16.06	15.12	13.17
27R05	24.00	20.40	19.20	16.72
27R06	27.00	22.95	21.60	18.81
27R07	27.00	22.95	21.60	18.81
27R08	33.00	27.05	26.40	22.99
27R09	45.00	38.25	36.00	31.35
27R10	24.30	20.65	19.44	16.93
27R11	30.00	25.50	24.00	20.90
27R12	45.00	38.25	36.00	31.35
27R13	18.90	16.06	15.12	13.17
27R14	21.60	18.36	17.28	15.05
27R15	27.00	22.95	21.60	18.81
27R16	37.50	31.90	30.00	26.13
27R17	24.45	20.78	19.56	17.03
27R18	15.00	12.75	12.00	11.00
27R19	18.75	15.94	15.00	13.75
27R20	13.50	11.47	10.80	9.41
27R21	14.25	12.11	11.40	9.97
27R22	18.30	15.55	14.64	12.75
27R23	18.75	15.94	15.00	13.07
27R24	20.25	17.21	16.20	14.85
27R25	23.25	19.76	18.60	17.05
27R26	29.85	24.86	23.40	21.45
27R27	30.75	26.13	24.60	22.55
27R28	35.25	29.96	28.20	25.85
27R29	36.00	30.60	28.80	26.40
27R30	45.00	38.25	36.00	33.00
27R31	14.25	12.11	11.40	10.45
27R32	19.50	16.58	15.60	14.30
27R33	22.50	19.13	18.00	16.50
27R34	19.50	16.58	15.60	14.30
27R35	24.00	20.40	19.20	17.60
27R36	30.00	25.50	24.00	22.00
27R37	33.00	27.05	26.40	24.20
27R38	13.50	11.48	10.80	9.90
27R39	13.05	10.59	10.44	9.57
27R40	15.00	12.75	12.00	11.00
27R41	15.00	12.75	12.00	11.00
27R42	15.75	13.39	12.60	11.55
27R43	16.80	14.28	13.44	12.32
27R44	18.00	15.30	14.40	13.20
27R45	19.50	16.58	15.60	14.30
27R46	20.25	17.21	16.20	14.85
27R47	24.75	21.04	19.80	18.15
27R48	27.00	22.95	21.60	19.80
27R49	33.75	28.68	27.00	24.75
27R50	18.00	15.30	14.40	13.20
27R51	18.00	15.30	14.40	13.20
27R52	20.25	17.21	16.20	14.85
27R53	18.75	15.94	15.00	13.75
27R54	20.25	17.21	16.20	14.85
27R55	30.00	25.50	24.00	22.00
27R56	30.00	25.50	24.00	22.00
27R57	39.00	33.00	31.00	28.60
27R58	30.00	25.50	24.00	22.00
27R59	27.00	22.95	21.60	19.80
27R60	18.00	15.30	14.40	13.20
27R61	21.75	18.49	17.40	15.95
27R62	15.75	13.39	12.60	11.55
27R63	12.00	10.20	9.60	8.80
27R64	13.50	11.47	10.80	9.90
27R65	14.40	12.24	11.52	10.56
27R66	15.00	12.75	12.00	11.00
27R67	16.50	14.03	13.20	12.10
27R68	16.50	14.03	13.20	12.10
27R69	16.50	14.03	13.20	12.10
27R70	18.60	15.81	14.88	13.64
27R71	19.50	16.58	15.60	14.30
27R72	25.50	21.68	20.40	18.70
27R73	27.00	22.95	21.60	19.80
27R74	30.00	25.50	24.00	22.00
27R75	15.00	12.75	12.00	11.00
27R76	16.50	14.03	13.20	12.10
27R77	16.50	14.03	13.20	12.10
27R78	18.00	15.30	14.40	13.20
27R79	20.25	17.21	16.20	14.85
27R80	24.00	20.40	19.20	17.60
27R81	25.50	21.67	20.40	18.70
27R82	34.50	29.33	27.60	25.30
27R83	33.00	27.05	26.40	24.20
27R84	30.00	25.50	24.00	22.00
27R85	21.60	18.36	17.28	15.40
27R86	18.75	15.94	15.00	13.07
27R87	20.10	17.09	16.08	14.00
27R88	21.75	18.48	17.40	15.15
27R89	25.50	21.68	20.40	17.77
27R90	30.45	25.88	24.36	21.21
27R91	18.75	15.94	15.00	13.07
27R92	23.55	20.02	18.84	16.41
27R93	33.75	28.68	27.00	23.50
27R94	22.20	18.87	17.76	16.28
27R95	22.50	19.13	18.00	16.50
27R96	30.00	25.50	24.00	22.00
27R97	39.00	33.20	31.20	28.60
27R98	39.00	33.20	31.20	28.60
27R99	60.00	51.00	48.00	44.00
27R100	24.00	20.40	19.20	17.60
27R101	24.00	20.40	19.20	17.60
27R102	24.00	20.40	19.20	17.60
27R103	24.00	20.40	19.20	17.60
27R104	23.25	19.76	18.60	17.05
27R105	23.70	20.15	18.96	17.38
27R106	22.10	18.79	18.48	16.94
27R107	20.25	17.21	16.20	14.85
27R108	24.90	21.17	19.92	18.22
27R109	25.50	21.68	20.40	18.70
27R110	27.75	23.59	22.20	20.35
27R111	35.25	29.96	28.20	25.85
27R112	46.50	39.53	37.20	34.10
27R113	45.00	38.25	36.00	33.00
27R114	18.75	15.94	15.00	13.75
27R115	21.75	18.48	17.40	15.95
27R116	27.00	22.95	21.60	19.80
27R117	45.00	38.25	36.00	33.00
27R118	43.50	36.98	34.80	31.90
27R119	63.00	53.55	50.40	46.20
27R121	30.00	25.50	24.00	22.00
27R122	42.00	35.70	33.60	30.80
27R123	42.00	35.70	33.60	30.80
27R124	18.00	15.30	14.40	13.20
27R127	18.00	15.30	14.40	13.20
27R128	15.00	12.75	12.00	11.00
27R129	18.00	15.30	14.40	13.20
27R131	30.00	25.50	24.00	22.00
27R132	30.00	25.50	24.00	22.00
27R133	30.00	25.50	24.00	22.00
27R134	30.00	25.50	24.00	22.00
27R135	27.50	19.10	18.00	16.50
S				
22S21	3.60	3.07	2.88	2.64
22S39	15.00	12.75	12.00	11.00
22S41	12.00	10.20	9.60	8.80
22S42	12.00	10.20	9.60	8.80
22S43	22.50	19.13	18.00	16.50
22S44	6.30	5.36	5.04	4.62
22S45	1.50	1.28	1.20	1.10
22S46	3.09	2.55	2.40	2.20
22S47	2.16	1.84	1.73	1.54
22S48	2.40	2.04	1.92	1.76
22S49	13.50	11.48	10.80	9.90

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963 — **Form I-463**

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Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
S				
22S50	2.16	1.84	1.73	1.54
22S51	4.20	3.57	3.36	3.08
22S52	4.05	3.85	3.65	2.97
22S53	15.00	12.75	12.00	11.00
22S54	3.30	2.80	2.64	2.42
22S55	4.80	4.08	3.84	3.52
22S56	3.00	2.55	2.40	2.20
22S57	3.60	3.06	2.88	2.64
22S58	3.00	2.55	2.40	2.20
22S59	3.30	2.80	2.64	2.42
22S60	3.75	3.19	3.00	2.75
22S61	2.25	1.92	1.80	1.65
22S62	3.75	3.19	3.00	2.75
22S63	11.25	9.56	9.00	8.25
22S64	5.70	4.84	4.56	3.97
22S65	14.25	12.11	11.40	10.45
22S66	6.75	5.74	5.40	4.95
22S67	11.70	9.95	9.36	8.58
22S68	7.50	6.38	6.00	5.50
22S69	10.95	9.31	8.76	8.03
22S70	5.70	4.84	4.56	3.97
22S71	6.00	5.10	4.80	4.40
22S72	6.00	5.10	4.80	4.40
22S73	2.40	2.04	1.92	1.76
22S74	6.00	5.10	4.80	4.40
22S75	1.65	1.40	1.32	1.21
22S76	4.50	3.82	3.60	3.30
22S77	4.35	3.70	3.48	3.19
22S78	11.25	9.56	9.00	8.25
22S79	3.60	3.06	2.88	2.64
22S80	4.20	3.57	3.36	3.08
22S81	1.80	1.53	1.44	1.25
22S82	4.65	3.95	3.72	3.41
22S83	4.50	3.82	3.60	3.30
22S84	4.50	3.82	3.60	3.30
22S85	4.50	3.82	3.60	3.30
22S86	2.40	2.04	1.92	1.76
22S87	4.50	3.82	3.60	3.30
22S88	4.50	3.82	3.60	3.30
22S89	3.90	3.32	3.12	2.86
22S90	4.50	3.82	3.60	3.30
22S91	3.30	2.80	2.64	2.42
22S92	9.00	7.65	7.20	6.60
22S93	8.25	7.01	6.60	6.05
22S94	9.00	7.65	7.20	6.60
22S95	7.50	6.38	6.00	5.50
22S96	9.75	8.29	7.80	7.15
22S97	7.50	6.38	6.00	5.50
22S98	9.75	8.29	7.80	7.15
22S99	3.00	2.55	2.40	2.20
24S00	3.99	3.38	3.19	2.92
24S01	3.00	2.55	2.40	2.20
24S02	3.15	2.68	2.52	2.19
24S04	2.55	2.17	2.04	1.87
24S05	3.00	2.55	2.40	2.20
24S06	3.00	2.55	2.40	2.20
24S07	3.30	2.80	2.64	2.42
24S80	3.00	2.55	2.40	2.20
24S09	3.60	3.06	2.88	2.64
24S10	2.55	2.17	2.04	1.87
24S11	3.00	2.55	2.40	2.20
24S12	3.30	2.80	2.64	2.42
24S13	3.00	2.55	2.40	2.20
24S14	3.60	3.07	2.88	2.64
24S15	6.00	5.10	4.80	4.40
24S16	3.60	3.07	2.88	2.64
24S17	3.00	2.55	2.40	2.20
24S18	7.50	6.38	6.00	5.50
24S19	2.70	2.30	2.15	1.98
24S20	2.40	2.04	1.92	1.76
24S21	3.00	2.55	2.40	2.20
24S22	3.75	3.18	3.00	2.75
24S23	3.30	2.80	2.64	2.42
24S24	2.30	1.95	1.84	1.70
24S25	4.50	3.82	3.60	3.30
24S26	2.40	2.04	1.92	1.76
24S27	3.60	3.06	2.88	2.64
24S28	2.25	1.91	1.80	1.65
24S29	2.25	1.91	1.80	1.65
24S30	1.80	1.53	1.44	1.32
24S31	1.80	1.53	1.44	1.32
24S32	1.80	1.53	1.44	1.32
24S33	1.80	1.53	1.44	1.32
24S34	1.80	1.53	1.44	1.32
24S35	1.80	1.53	1.44	1.32
24S36	1.80	1.53	1.44	1.32
24S37	1.80	1.53	1.44	1.32
24S38	1.80	1.53	1.44	1.32
24S39	1.80	1.53	1.44	1.32
24S40	1.80	1.53	1.44	1.32
24S41	4.50	3.83	3.60	3.30
24S42	4.50	3.83	3.60	3.30
24S43	4.50	3.83	3.60	3.30
24S44	4.50	3.83	3.60	3.30
24S45	3.00	2.55	2.40	2.20
24S46	2.55	2.17	2.04	1.87
24S47	3.00	2.55	2.40	2.20
24S48	1.20	1.02	.96	.88
24S49	1.20	1.02	.96	.88
24S50	1.30	1.10	1.04	.95
24S50A	1.95	1.65	1.55	1.43
24S51	1.30	1.10	1.04	.95
24S51A	1.95	1.65	1.55	1.43
24S52	1.35	1.15	1.08	.99
24S53	1.20	1.02	.96	.88
24S54	1.38	1.17	1.10	1.01
24S55	3.90	3.30	3.12	2.86
24S56	2.34	1.98	1.87	1.72
24S57	7.50	6.37	6.00	5.50
24S58	5.70	4.85	4.56	4.18
24S59	2.10	1.78	1.68	1.54
24S60	2.40	2.04	1.92	1.76
24S61	2.55	2.17	2.04	1.87
24S62	5.70	4.85	4.56	4.18
24S63	2.28	1.94	1.82	1.67
24S64	3.00	2.55	2.40	2.20
24S66	3.00	2.55	2.40	2.20
24S67	3.45	2.93	2.76	2.53
24S70	9.00	7.65	7.20	6.60
24S71	3.03	2.58	2.42	2.22
24S72	4.29	3.65	3.42	3.15
24S73	3.60	3.06	2.88	2.64
24S74	2.46	2.09	1.96	1.80
24S75	1.53	1.30	1.22	1.12
24S76	3.30	2.80	2.64	2.44
24S77	6.30	5.35	5.04	4.62
24S78	1.95	1.65	1.56	1.43
24S79	10.20	8.76	8.16	7.48
24S80	2.25	1.91	1.80	1.65
24S81	1.50	1.28	1.20	1.10
24S82	1.50	1.28	1.20	1.10
24S83	1.68	1.43	1.34	1.23
24S84	1.50	1.28	1.20	1.10
24S85	1.65	1.40	1.32	1.21
24S86	4.62	3.93	3.70	3.40
24S87	1.80	1.53	1.44	1.32
24S88	3.00	2.55	2.40	2.20
24S89	1.80	1.53	1.44	1.32
24S90	2.40	2.04	1.92	1.76
24S91	4.50	3.83	3.60	3.30
24S92	2.25	1.91	1.80	1.65
24S93	2.25	1.91	1.80	1.65
24S94	1.50	1.27	1.20	1.10
24S95	1.80	1.53	1.44	1.32
24S96	2.10	1.78	1.68	1.54
24S97	1.80	1.53	1.44	1.32
24S98	1.50	1.28	1.20	1.10
24S99	1.68	1.43	1.34	1.23
24S133	6.00	5.10	4.80	4.40
24S134	6.00	5.10	4.80	4.40
24S143	6.00	5.10	4.80	4.40
24S144	6.00	5.10	4.80	4.40
24S145	5.10	4.33	4.08	3.74

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EFFECTIVE APRIL 1, 1963

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Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
S				
25S01	7.02	5.96	5.62	4.90
25S02	7.02	5.96	5.62	4.90
25S03	7.50	6.38	6.00	5.23
25S04	5.70	4.85	4.56	3.96
25S05	4.80	4.08	3.84	3.35
25S06	5.10	4.32	4.08	3.55
25S07	8.10	6.88	6.48	5.65
25S08	8.10	6.88	6.48	5.65
25S09	8.10	6.88	6.48	5.65
25S10	9.00	7.65	7.20	6.27
25S11	9.00	7.65	7.20	6.27
25S12	11.55	9.82	9.24	8.03
25S13	10.80	9.20	8.60	7.52
25S14	9.15	7.78	7.32	6.37
25S15	16.20	13.77	12.96	11.29
25S16	18.90	16.07	15.12	13.17
25S17	18.90	16.07	15.12	13.17
25S18	15.15	12.88	12.12	10.54
25S19	15.15	12.88	12.12	10.54
25S20	16.20	13.77	12.96	11.29
25S21	7.02	5.96	5.62	4.90
25S22	8.10	6.88	6.48	5.65
25S23	13.50	11.48	10.80	9.90
25S24	15.00	12.75	12.00	11.00
25S25	18.00	15.30	14.40	13.20
25S26	22.50	19.12	18.00	16.50
25S27	22.50	19.12	18.00	16.50
25S28	22.50	19.12	18.00	16.50
25S29	30.00	25.50	24.00	22.00
25S30	27.00	22.95	21.60	19.80
25S31	22.50	19.12	18.00	16.50
25S32	12.00	10.20	9.30	8.36
25S33	10.80	9.20	8.60	7.52
25S34	9.75	8.29	7.80	7.15
25S35	15.00	12.75	12.00	11.00
25S36	10.50	8.93	8.40	7.70
25S37	11.10	9.43	8.88	8.14
25S38	7.50	6.38	6.00	5.50
25S39	7.50	6.38	6.00	5.50
25S40	15.00	12.75	12.00	11.00
25S41	15.00	12.75	12.00	11.00
25S42	22.50	19.12	18.00	16.50
25S43	10.80	9.20	8.60	7.92
25S44	9.75	8.29	7.80	7.15
25S45	10.80	9.20	8.60	7.52
25S46	10.80	9.20	8.60	7.52
25S47	10.80	9.20	8.60	7.52
25S48	10.80	9.20	8.60	7.52
25S49	12.60	10.71	10.08	8.78
25S50	13.50	11.48	10.80	9.41
25S51	21.60	18.36	17.28	15.05
25S52	12.00	10.20	9.60	8.36
25S53	12.90	10.97	10.32	8.90
25S54	18.90	16.06	15.12	13.17
25S57	8.10	6.88	6.48	5.65
25S58	9.45	8.03	7.56	6.58
25S59	13.50	11.48	10.80	9.41
25S67	9.00	7.65	7.20	6.60
25S68	8.25	7.21	6.80	6.05
25S69	9.00	7.65	7.20	6.60
25S70	9.00	7.65	7.20	6.60
25S71	9.00	7.65	7.20	6.60
25S72	9.00	7.65	7.20	6.60
25S73	9.60	8.16	7.68	7.04
25S74	9.60	8.16	7.68	7.04
25S75	36.00	30.60	28.80	26.40
25S76	22.50	19.12	18.00	16.50
25S77	3.75	3.19	3.00	2.75
25S78	3.75	3.19	3.00	2.75
25S79	12.75	10.83	10.20	9.35
25S80	36.00	30.60	28.80	26.40
25S81	8.10	6.88	6.48	5.94
27S01	13.20	11.22	10.56	9.20
27S02	10.80	9.20	8.60	7.52
27S03	10.80	9.20	8.60	7.52
27S04	12.00	10.20	9.60	8.36
27S05	12.00	10.20	9.60	8.36
27S06	12.00	10.20	9.60	8.36
27S07	15.00	12.75	12.00	11.00
27S08	18.00	15.50	14.40	13.20
27S09	22.50	19.12	18.00	16.50
27S10	30.00	25.50	24.00	20.90
27S11	30.00	25.50	24.00	20.90
27S12	30.00	25.50	24.00	20.90
27S13	18.90	16.06	15.12	13.17
27S14	22.50	19.12	18.00	16.50
27S15	12.60	10.71	10.08	8.78
27S16	12.60	10.71	10.08	8.78
27S17	22.50	19.12	17.40	15.60
27S18	7.65	6.50	6.12	5.32
27S19	7.65	6.50	6.12	5.32
27S20	7.65	6.50	6.12	5.32
27S21	6.75	5.74	5.40	4.70
27S22	6.75	5.74	5.40	4.70
27S23	6.75	5.74	5.40	4.70
27S24	14.40	12.24	11.52	10.00
27S25	14.40	12.24	11.52	10.00
27S26	13.50	11.48	10.80	9.41
27S27	12.00	10.20	9.30	8.80
27S28	12.00	10.20	9.30	8.80
27S29	10.80	9.20	8.60	7.52
27S30	11.55	9.82	9.24	8.03
27S31	8.40	7.14	6.72	5.85
27S35	8.10	6.88	6.48	5.65
27S36	8.10	6.88	6.48	5.65
27S37	7.50	6.38	6.00	5.23
27S38	7.20	6.12	5.16	5.24
27S39	7.80	6.43	6.04	5.72
27S40	7.20	6.12	5.76	5.24
27S41	5.85	4.97	4.68	3.29
27S42	5.85	4.97	4.68	3.29
27S43	5.85	4.97	4.68	3.29
27S44	6.00	5.10	4.80	4.40
27S45	6.00	5.10	4.80	4.40
27S46	6.00	5.10	4.80	4.40
27S47	7.50	6.38	6.00	5.23
27S48	7.50	6.38	6.00	5.23
27S49	7.02	5.96	5.62	4.90
27S50	6.30	5.36	5.04	4.62
27S51	7.20	6.12	5.76	5.24
27S52	7.02	5.96	5.62	4.90
27S53	7.20	6.12	5.76	5.24
27S54	16.50	14.02	13.20	12.10
27S55	18.75	15.94	15.00	13.75
27S56	21.00	17.85	16.80	15.40
27S57	21.00	17.85	16.80	15.40
27S58	21.00	17.85	16.80	15.40
27S59	21.00	17.85	16.80	15.40
27S60	21.00	17.85	16.80	15.40
27S61	27.00	22.95	21.60	19.80
27S62	27.00	22.95	21.60	19.80
27S63	27.00	22.95	21.60	19.80
27S64	27.00	22.95	21.60	19.80
27S65	27.00	22.95	21.60	19.80
27S66	39.00	33.15	31.20	28.60
27S67	39.00	33.15	31.20	28.60
27S68	39.00	33.15	31.20	28.60
27S69	13.20	11.22	10.56	9.68
27S70	13.20	11.22	10.56	9.68
27S71	15.00	12.75	12.00	11.00
27S72	18.90	16.06	15.12	13.86
27S73	16.50	14.02	13.20	12.10
27S74	18.75	15.94	15.00	13.75
27S75	21.00	17.85	16.80	15.40
27S76	25.50	21.67	20.40	18.70
27S77	22.50	19.12	18.00	16.50
27S78	21.00	17.85	16.80	15.40
27S79	27.00	22.95	21.60	19.80
27S80	12.00	10.20	9.30	8.80
27S81	12.00	10.20	9.30	8.80
27S82	12.00	10.20	9.30	8.80
27S83	12.00	10.20	9.30	8.80
27S84	12.00	10.20	9.90	8.80
27S85	12.00	10.20	9.90	8.80

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963 — **Form I-463**

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price-list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
S				
27S86	10.80	9.20	8.60	7.52
27S87	10.80	9.20	8.60	7.52
27S88	5.70	4.85	4.56	4.18
27S89	5.70	4.85	4.56	4.18
27S90	5.40	4.59	4.32	3.96
27S91	5.40	4.59	4.32	3.96
27S92	6.00	5.20	4.80	4.40
27S93	5.70	4.85	4.56	4.18
27S94	5.70	4.85	4.56	4.18
27S95	5.70	4.85	4.56	4.18
27S96	6.00	5.20	4.80	4.40
27S97	6.00	5.20	4.80	4.40
27S98	6.00	5.20	4.80	4.40
27S99	5.70	4.85	4.56	4.18
27S100	5.70	4.85	4.56	4.18
27S101	6.00	5.20	4.80	4.40
27S102	6.00	5.20	4.80	4.40
27S103	5.70	4.85	4.56	4.18
27S104	5.70	4.85	4.56	4.18
27S105	5.70	4.85	4.56	4.18
27S106	6.00	5.20	4.80	4.40
27S107	6.00	5.20	4.80	4.40
27S108	6.00	5.20	4.80	4.40
27S109	6.30	5.36	5.04	4.62
27S110	7.50	6.38	6.00	5.50
27S111	7.02	5.96	5.62	5.15
27S112	12.00	10.20	9.30	8.80
27S113	15.00	12.75	12.00	11.00
27S114	15.00	12.75	12.00	11.00
27S115	12.90	10.96	10.32	9.48
27S116	12.90	10.96	10.32	9.48
27S117	14.40	12.24	11.52	10.56
27S118	15.00	12.75	12.00	11.00
27S119	21.00	17.85	16.80	15.40
27S120	21.00	17.85	16.80	15.40
27S121	30.00	25.50	24.00	22.00
27S122	12.00	10.20	9.30	8.80
27S123	13.50	11.48	10.80	9.90
27S125	12.75	10.83	10.20	9.35
27S126	9.60	8.16	7.68	7.04
TOR				
TOR-700	5.40	4.60	4.32	3.96
TOR-701	5.40	4.60	4.32	3.96
TOR-702	5.40	4.60	4.32	3.96
TOR-703	5.40	4.60	4.32	3.96
TOR-704	5.40	4.60	4.32	3.96
TOR-705	5.40	4.60	4.32	3.96
TOR-706	5.55	4.72	4.44	4.07
TOR-707	5.55	4.72	4.44	4.07
TOR-708	5.70	4.85	4.56	4.18
TOR-709	5.70	4.85	4.56	4.18
TOR-710	5.70	4.85	4.56	4.18
TOR-711	5.70	4.85	4.56	4.18
TOR-712	5.70	4.85	4.56	4.18
TOR-713	5.85	4.97	4.68	4.29
TOR-714	5.85	4.97	4.68	4.29
TOR-715	5.85	4.97	4.68	4.29
TOR-716	5.85	4.97	4.68	4.29
TOR-717	6.00	5.10	4.80	4.40
TOR-718	6.00	5.10	4.80	4.40
TOR-719	6.15	5.23	4.92	4.51
TOR-720	6.15	5.23	4.92	4.51
TOR-721	6.30	5.36	5.04	4.62
TOR-722	6.60	5.61	5.28	4.84
TOR-723	7.20	6.12	5.76	5.24
TOR-724	5.55	4.72	4.44	4.07
TOR-725	5.55	4.72	4.44	4.07
TOR-726	5.55	4.72	4.44	4.07
TOR-727	5.55	4.72	4.44	4.07
TOR-728	5.55	4.72	4.44	4.07
TOR-729	5.55	4.72	4.44	4.07
TOR-730	5.55	4.72	4.44	4.07
TOR-731	5.55	4.72	4.44	4.07
TOR-732	5.70	4.85	4.56	4.18
TOR-733	5.70	4.85	4.56	4.18
TOR-734	5.85	4.97	4.68	4.29
TOR-735	5.85	4.97	4.68	4.29
TOR-736	5.85	4.97	4.68	4.29
TOR-737	5.85	4.97	4.68	4.29
TOR-738	5.85	4.97	4.68	4.29
TOR-739	5.85	4.97	4.68	4.29
TOR-740	6.00	5.10	4.80	4.40
TOR-741	6.00	5.10	4.80	4.40
TOR-742	6.00	5.10	4.80	4.40
TOR-743	6.00	5.10	4.80	4.40
TOR-744	6.00	5.10	4.80	4.40
TOR-745	6.15	5.23	4.92	4.51
TOR-746	6.15	5.23	4.92	4.51
TOR-747	6.30	5.36	5.04	4.62
TOR-748	5.40	4.60	4.32	3.96
TOR-749	5.40	4.60	4.32	3.96
TOR-750	5.40	4.60	4.32	3.96
TOR-751	5.10	4.33	4.08	3.74
TOR-752	5.10	4.33	4.08	3.74
TOR-753	5.10	4.33	4.08	3.74
TOR-754	4.50	3.82	3.60	3.30
TOR-755	4.50	3.82	3.60	3.30
TOR-756	5.40	4.60	4.32	3.96
TOR-757	4.50	3.82	3.60	3.30
TOR-758	5.40	4.60	4.32	3.96
TOR-759	5.40	4.60	4.32	3.96
TOR-760	5.40	4.60	4.32	3.96
TOR-761	4.50	3.82	3.60	3.30
TOR-762	5.40	4.60	4.32	3.96
TOR-763	5.40	4.60	4.32	3.96
TOR-764	4.50	3.82	3.60	3.30
TOR-765	5.40	4.60	4.32	3.96
TOR-766	5.10	4.33	4.08	3.74
TOR-767	5.55	4.72	4.44	4.07
TOR-768	5.55	4.72	4.44	4.07
TOR-769	5.55	4.72	4.44	4.07
TOR-770	5.25	4.46	4.20	3.85
TOR-771	5.85	4.97	4.68	4.29
TOR-772	6.00	5.10	4.80	4.40
TOR-773	7.80	6.43	6.04	5.72
TOR-774	5.25	4.46	4.20	3.85
TOR-775	5.55	4.72	4.44	4.07
TOR-776	5.55	4.72	4.44	4.07
TOR-777	5.55	4.72	4.44	4.07
TOR-778	5.55	4.72	4.44	4.07
TOR-779	5.55	4.72	4.44	4.07
TOR-780	5.70	4.85	4.56	4.18
TOR-781	5.70	4.85	4.56	4.18
TOR-782	5.70	4.85	4.56	4.18
TOR-783	5.85	4.97	4.68	4.29
TOR-784	5.85	4.97	4.68	4.29
TOR-785	5.85	4.97	4.68	4.29
TOR-786	5.85	4.97	4.68	4.29
TOR-787	6.00	5.10	4.80	4.40
TOR-788	6.00	5.10	4.80	4.40
TOR-789	6.00	5.10	4.80	4.40
TOR-790	6.00	5.10	4.80	4.40
TOR-791	6.15	5.23	4.92	4.51
TOR-792	6.15	5.23	4.92	4.51
TOR-793	6.15	5.23	4.92	4.51
TOR-794	6.15	5.23	4.92	4.51
TOR-795	6.30	5.36	5.04	4.62
TOR-796	6.30	5.36	5.04	4.62
TOR-797	6.60	5.61	5.28	4.84
TOR-798	6.60	5.61	5.28	4.84
TOR-799	6.60	5.61	5.28	4.84
TOR-800	3.75	3.19	3.00	2.75
TOR-801	3.75	3.19	3.00	2.75
TOR-802	3.75	3.19	3.00	2.75
TOR-803	3.75	3.19	3.00	2.75
TOR-804	3.75	3.19	3.00	2.75
TOR-805	3.75	3.19	3.00	2.75
TOR-806	3.75	3.19	3.00	2.75
TOR-807	4.05	3.45	3.24	2.97
TOR-808	4.05	3.45	3.24	2.97
TOR-809	4.05	3.45	3.24	2.97
TOR-810	4.05	3.45	3.24	2.97
TOR-811	4.05	3.45	3.24	2.97
TOR-812	4.05	3.45	3.24	2.97

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

TOR

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
TOR-813	4.20	3.57	3.36	3.08
TOR-814	4.20	3.57	3.56	3.08
TOR-815	4.20	3.57	3.36	3.08
TOR-816	4.20	3.57	3.36	3.08
TOR-817	4.20	3.57	3.36	3.08
TOR-818	4.20	3.57	3.36	3.08
TOR-819	4.50	3.82	3.60	3.30
TOR-820	4.50	3.82	3.60	3.30
TOR-821	4.50	3.82	3.60	3.30
TOR-822	5.10	4.33	4.08	3.74
TOR-823	5.55	4.72	4.44	4.07
TOR-824	3.75	3.19	3.00	2.75
TOR-825	3.75	3.19	3.00	2.75
TOR-826	3.75	3.19	3.00	2.75
TOR-827	3.75	3.19	3.00	2.75
TOR-828	3.75	3.19	3.00	2.75
TOR-829	3.75	3.19	3.00	2.75
TOR-830	3.75	3.19	3.00	2.75
TOR-831	3.75	3.19	3.00	2.75
TOR-832	4.05	3.45	3.24	2.97
TOR-833	4.05	3.45	3.24	2.97
TOR-834	4.05	3.45	3.24	2.97
TOR-835	4.05	3.45	3.24	2.97
TOR-836	4.05	3.45	3.24	2.97
TOR-837	4.20	3.57	3.36	3.08
TOR-838	4.20	3.57	3.36	3.08
TOR-839	4.20	3.57	3.36	3.08
TOR-840	4.20	3.57	3.36	3.08
TOR-841	4.20	3.57	3.36	3.08
TOR-842	4.50	3.82	3.60	3.30
TOR-843	4.50	3.82	3.60	3.30
TOR-844	4.50	3.82	3.60	3.30
TOR-845	4.50	3.82	3.60	3.30
TOR-846	4.50	3.82	3.60	3.30
TOR-847	4.50	3.82	3.60	3.30
TOR-848	3.60	3.06	2.88	2.64
TOR-849	3.60	3.06	2.88	2.64
TOR-850	3.60	3.06	2.88	2.64
TOR-851	3.60	3.06	2.88	2.64
TOR-852	3.60	3.06	2.88	2.64
TOR-853	3.60	3.06	2.88	2.64
TOR-855	3.60	3.06	2.88	2.64
TOR-856	3.60	3.06	2.88	2.64
TOR-857	3.60	3.06	2.88	2.64
TOR-858	3.60	3.06	2.88	2.64
TOR-859	3.60	3.06	2.88	2.64
TOR-860	3.60	3.06	2.88	2.64
TOR-861	3.60	3.06	2.88	2.64
TOR-862	3.60	3.06	2.88	2.64
TOR-864	3.60	3.06	2.88	2.64
TOR-865	3.60	3.06	2.88	2.64
TOR-866	3.60	3.06	2.88	2.64
TOR-867	3.75	3.19	3.00	2.75
TOR-868	3.75	3.19	3.00	2.75
TOR-869	4.05	3.45	3.24	2.97
TOR-870	4.05	3.45	3.24	2.97
TOR-871	4.20	3.57	3.36	3.08
TOR-872	4.50	3.82	3.60	3.30
TOR-874	4.50	3.82	3.60	3.30
TOR-875	3.75	3.19	3.00	2.75
TOR-876	3.75	3.19	3.00	2.75
TOR-877	3.75	3.19	3.00	2.75
TOR-878	3.75	3.19	3.00	2.75
TOR-879	3.75	3.19	3.00	2.75
TOR-880	4.05	3.45	3.24	2.97
TOR-881	4.05	3.45	3.24	2.97
TOR-882	4.05	3.45	3.24	2.97
TOR-883	4.05	3.45	3.24	2.97
TOR-884	4.05	3.45	3.24	2.97
TOR-885	4.05	3.45	3.24	2.97
TOR-886	4.05	3.45	3.24	2.97
TOR-887	4.20	3.57	3.36	3.08
TOR-888	4.20	3.57	3.36	3.08
TOR-889	4.20	3.57	3.36	3.08
TOR-890	4.20	3.57	3.36	3.08
TOR-891	4.50	3.82	3.60	3.30
TOR-892	4.50	3.82	3.60	3.30
TOR-893	4.50	3.82	3.60	3.30
TOR-894	4.50	3.82	3.60	3.30
TOR-895	4.50	3.82	3.60	3.30
TOR-896	4.50	3.82	3.60	3.30
TOR-897	4.50	3.82	3.60	3.30
TOR-898	4.80	4.08	3.84	3.52
TOR-899	4.80	4.08	3.84	3.52
TOR-900	4.80	4.08	3.84	3.52
TOR-901	5.10	4.33	4.08	3.74
TOR-902	5.55	4.72	4.44	4.07
TOR-903	6.15	5.23	4.92	4.51
TOR-904	5.70	4.85	4.56	4.18
TOR-905	5.70	4.85	4.56	4.18
TOR-906	5.85	4.97	4.68	4.29
TOR-907	5.85	4.97	4.68	4.29
TOR-908	5.85	4.97	4.68	4.29
TOR-909	6.00	5.10	4.80	4.40
TOR-910	6.00	5.10	4.80	4.40
TOR-911	6.15	5.23	4.92	4.51
TOR-912	6.15	5.23	4.92	4.51
TOR-913	6.15	5.23	4.92	4.51
TOR-914	6.15	5.23	4.92	4.51
TOR-915	6.30	5.36	5.04	4.62
TOR-916	6.30	5.36	5.04	4.62
TOR-917	6.60	5.61	5.28	4.84
TOR-918	6.60	5.61	5.28	4.84
TOR-919	6.60	5.61	5.28	4.84
TOR-920	7.20	6.12	5.76	5.24
TOR-921	7.20	6.12	5.76	5.24
TOR-922	7.20	6.12	5.76	5.24
TOR-923	7.80	6.43	6.04	5.72
TOR-924	7.80	6.43	6.04	5.72
TOR-925	8.10	6.88	6.48	5.94
TOR-926	8.40	7.14	6.72	6.16
TOR-927	8.70	7.40	6.96	6.38
TOR-928	9.60	8.16	7.68	7.04
TOR-929	10.20	8.67	8.16	7.48
TOR-7100	6.60	5.61	5.28	4.84
TOR-7101	6.60	5.61	5.28	4.84
TOR-7102	7.20	6.12	5.76	5.24
TOR-7103	6.60	5.61	5.28	4.84
TOR-7104	7.80	6.43	6.04	5.72
TOR-7105	7.80	6.43	6.04	5.72
TOR-7106	7.80	6.43	6.04	5.72
TOR-7107	7.80	6.43	6.04	5.72
TOR-7108	7.80	6.43	6.04	5.72
TOR-7109	7.80	6.43	6.04	5.72
TOR-7110	7.80	6.43	6.04	5.72
TOR-7111	7.80	6.43	6.04	5.72
TOR-7112	7.80	6.43	6.04	5.72
TOR-7113	7.80	6.43	6.04	5.72
TOR-7114	8.10	6.88	6.48	5.94
TOR-7115	8.10	6.88	6.48	5.94
TOR-7116	8.10	6.88	6.48	5.94
TOR-7117	8.40	7.14	6.72	6.16
TOR-7118	8.70	7.40	6.96	6.38
TOR-7119	8.70	7.40	6.96	6.38
TOR-7120	8.70	7.40	6.96	6.38
TOR-7121	9.30	7.90	7.44	6.82
TOR-7122	9.30	7.90	7.44	6.82
TOR-7123	9.30	7.90	7.44	6.82
TOR-7124	9.30	7.90	7.44	6.82
TOR-7125	9.90	8.41	7.92	7.26
TOR-7126	10.50	8.92	8.40	7.70
TOR-7127	10.50	8.92	8.40	7.70
TOR-7128	11.40	9.67	9.12	8.36
TOR-7129	12.00	10.20	9.60	8.80

TR

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
TR-1	3.00	2.55	2.40	2.20
TR-2	3.00	2.55	2.40	2.20
TR-3	3.00	2.55	2.40	2.20
TR-4	3.00	2.55	2.40	2.20
TR-5	3.00	2.55	2.40	2.20
TR-6	3.00	2.55	2.40	2.20
TR-7	3.00	2.55	2.40	2.20
TR-8	3.30	2.80	2.64	2.42
TR-9	3.30	2.80	2.64	2.42

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963 Form I-463

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
TR				
TR-10	3.00	2.55	2.40	2.20
TR-11	3.00	2.55	2.40	2.20
TR-12	3.00	2.55	2.40	2.20
TR-13	3.30	2.80	2.64	2.42
TR-14	3.30	2.80	2.64	2.42
TR-15	3.30	2.80	2.64	2.42
TR-16	3.30	2.80	2.64	2.42
TR-17	3.00	2.55	2.40	2.20
TR-18	3.00	2.55	2.40	2.20
TR-19	3.00	2.55	2.40	2.20
TR-20	3.00	2.55	2.40	2.20
TR-21	3.30	2.80	2.64	2.42
TR-22	3.30	2.80	2.64	2.42
TR-23	3.00	2.55	2.40	2.20
TR-24	3.30	2.80	2.64	2.42
TR-25	3.30	2.80	2.64	2.42
TR-26	3.00	2.55	2.40	2.20
TR-27	3.00	2.55	2.40	2.20
TR-28	3.00	2.55	2.40	2.20
TR-29	3.00	2.55	2.40	2.20
TR-30	3.30	2.80	2.64	2.42
TR-31	3.30	2.80	2.64	2.42
TR-32	3.30	2.80	2.64	2.42
TR-33	3.00	2.55	2.40	2.20
TR-34	3.00	2.55	2.40	2.20
TR-35	3.60	3.06	2.88	2.64
TR-36	3.60	3.06	2.88	2.64
TR-37	3.60	3.06	2.88	2.64
TR-38	3.90	3.32	3.12	2.86
TR-39	3.60	3.06	2.88	2.64
TR-40	3.90	3.32	3.12	2.86
TR-41	3.60	3.06	2.88	2.64
TR-42	3.60	3.06	2.88	2.64
TR-43	3.60	3.06	2.88	2.64
TR-44	3.60	3.06	2.88	2.64
TR-45	3.90	3.32	3.12	2.86
TR-46	3.90	3.32	3.12	2.86
TR-47	3.90	3.32	3.12	2.86
TR-48	3.90	3.32	3.12	2.86
TR-49	3.60	3.06	2.88	2.64
TR-50	3.60	3.06	2.88	2.64
TR-51	3.90	3.32	3.12	2.86
TR-52	3.90	3.32	3.12	2.86
TR-53	3.90	3.32	3.12	2.86
TR-54	3.90	3.32	3.12	2.86
TR-55	3.90	3.32	3.12	2.86
TR-56	3.90	3.32	3.12	2.86
TR-57	3.90	3.32	3.12	2.86
TR-58	3.30	2.80	2.64	2.42
TR-59	3.90	3.32	3.12	2.86
TR-60	3.90	3.32	3.12	2.86
TR-61	2.10	1.79	1.68	1.54
TR-62	2.10	1.79	1.68	1.54
TR-63	3.00	2.55	2.40	2.20
TR-64	2.10	1.79	1.68	1.54
TR-65	2.10	1.79	1.68	1.54
TR-66	2.10	1.79	1.68	1.54
TR-67	3.90	3.32	3.12	2.86
TR-68	6.00	5.20	4.80	4.40
TR-69	9.00	7.65	7.20	6.60
TR-70	9.00	7.65	7.20	6.60
TR-71	10.80	9.18	8.64	7.92
TR-72	18.00	15.30	14.40	13.20
TR-73	30.00	25.50	24.00	22.00
TR-74	9.00	7.65	7.20	6.60
TR-75	10.80	9.18	8.64	7.92
TR-76	10.80	9.18	8.64	7.92
TR-77	10.80	9.18	8.64	7.92
TR-78	6.00	5.20	4.80	4.40
TR-79	10.80	9.18	8.64	7.92
TR-80	10.80	9.18	8.64	7.92
TR-81	18.00	15.30	14.40	13.20
TR-82	10.80	9.18	8.64	7.92
TR-83	9.00	7.65	7.20	6.60
TR-84	18.00	15.30	14.40	13.20
TR-85	9.00	7.65	7.20	6.60
TR-86	9.00	7.65	7.20	6.60
TR-87	10.80	9.18	8.64	7.92
TR-88	9.00	7.65	7.20	6.60
TR-89	10.80	9.18	8.64	7.92
TR-90	10.80	9.18	8.64	7.92
TR-91	18.00	15.30	14.40	13.20
TR-92	18.00	15.30	14.40	13.20
TR-93	18.00	15.30	14.40	13.20
TR-94	18.00	15.30	14.40	13.20
TR-95	10.80	9.18	8.64	7.92
TR-96	18.00	15.30	14.40	13.20
TR-97	18.00	15.30	14.40	13.20
TR-98	10.80	9.18	8.64	7.92
TR-99	10.80	9.18	8.64	7.92
TR-101	3.30	2.80	2.64	2.42
TR-102	3.30	2.80	2.64	2.42
TR-103	3.30	2.80	2.64	2.42
TR-104	3.30	2.80	2.64	2.42
TR-105	3.30	2.80	2.64	2.42
TR-106	3.30	2.80	2.64	2.42
TR-107	3.30	2.80	2.64	2.42
TR-108	3.30	2.80	2.64	2.42
TR-109	3.30	2.80	2.64	2.42
TR-110	3.30	2.80	2.64	2.42
TR-111	3.30	2.80	2.64	2.42
TR-112	3.30	2.80	2.64	2.42
TR-113	3.30	2.80	2.64	2.42
TR-114	3.30	2.80	2.64	2.42
TR-115	3.30	2.80	2.64	2.42
TR-116	3.90	3.32	3.12	2.86
TR-117	3.30	2.80	2.64	2.42
TR-118	3.30	2.80	2.64	2.42
TR-119	3.30	2.80	2.64	2.42
TR-120	6.00	5.20	4.80	4.40
TR-121	6.00	5.20	4.80	4.40
TR-122	6.00	5.20	4.80	4.40
TR-123	6.00	5.20	4.80	4.40
TR-124	6.00	5.20	4.80	4.40
TR-125	6.00	5.20	4.80	4.40
TR-126	6.00	5.20	4.80	4.40
TR-127	6.00	5.20	4.80	4.40
TR-128	6.00	5.20	4.80	4.40
TR-129	6.00	5.20	4.80	4.40
TR-130	6.00	5.20	4.80	4.40
TR-131	6.00	5.20	4.80	4.40
TR-132	6.00	5.20	4.80	4.40
TR-133	6.00	5.20	4.80	4.40
TR-134	6.00	5.20	4.80	4.40
TR-135	6.00	5.20	4.80	4.40
TR-136	5.40	4.60	4.32	3.96
TR-137	5.40	4.60	4.32	3.96
TR-138	5.40	4.60	4.32	3.96
TR-139	5.40	4.60	4.32	3.96
TR-140	5.40	4.60	4.32	3.96
TR-141	5.40	4.60	4.32	3.96
TR-142	6.00	5.20	4.80	4.40
TR-143	6.00	5.20	4.80	4.40
TR-144	6.00	5.20	4.80	4.40
TR-145	6.00	5.20	4.80	4.40
TR-146	6.00	5.20	4.80	4.40
TR-147	5.40	4.60	4.32	3.96
TR-148	3.90	3.32	3.12	2.86
TR-149	3.90	3.32	3.12	2.86
TR-150	3.90	3.32	3.12	2.86
TR-151	3.90	3.32	3.12	2.86
TR-191	3.00	2.55	2.40	2.20
TR-192	2.67	2.27	2.13	1.96
TR-193	2.63	2.24	2.11	1.93
TR-194	3.08	2.62	2.46	2.26
TR-195	2.70	2.30	2.16	1.98
TR-196	3.34	2.84	2.67	2.46
TR-197	3.43	2.92	2.75	2.52
TR-198	8.47	7.21	6.77	6.22
TR-199	8.77	7.45	7.01	6.44
TR-200	3.00	2.55	2.40	2.20
TR-201	3.90	3.32	3.12	2.86
TR-202	2.70	2.30	2.16	1.88
TR-203	2.70	2.30	2.16	1.88
TR-204	2.70	2.30	2.16	1.88
TR-205	2.70	2.30	2.16	1.88
TR-206	3.90	3.32	3.12	2.86
TR-207	3.90	3.32	3.12	2.86
TR-208	3.90	3.32	3.12	2.86

THORDARSON MEISSNER
INCORPORATED

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"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

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TR

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
TR-209	2.70	2.30	2.16	1.88
TR-210	3.00	2.55	2.40	2.20
TR-211	3.00	2.55	2.40	2.20
TR-212	3.00	2.55	2.40	2.20
TR-213	3.00	2.55	2.40	2.20
TR-214	4.50	3.85	3.60	3.14
TR-215	3.60	3.06	2.88	2.64
TR-216	4.50	3.85	3.60	3.14
TR-217	4.50	3.85	3.60	3.14
TR-218	2.70	2.30	2.16	1.88
TR-219	3.30	2.80	2.64	2.42
TR-220	3.30	2.80	2.64	2.42
TR-221	3.30	2.80	2.64	2.42
TR-222	3.90	3.32	3.12	2.86
TR-223	3.90	3.32	3.12	2.86
TR-224	3.90	3.32	3.12	2.86
TR-225	3.90	3.32	3.12	2.86
TR-226	3.00	2.55	2.40	2.20
TR-227	3.30	2.80	2.64	2.42
TR-228	3.60	3.06	2.88	2.64
TR-229	3.60	3.06	2.88	2.64
TR-230	3.60	3.06	2.88	2.64
TR-231	3.60	3.06	2.88	2.64
TR-232	3.30	2.80	2.64	2.42
TR-233	3.30	2.80	2.64	2.42
TR-234	3.00	2.55	2.40	2.20
TR-235	3.60	3.06	2.88	2.64
TR-236	3.60	3.06	2.88	2.64
TR-237	3.60	3.06	2.88	2.64
TR-238	3.60	3.06	2.88	2.64
TR-239	3.60	3.06	2.88	2.64
TR-240	3.60	3.06	2.88	2.64
TR-241	3.60	3.06	2.88	2.64
TR-242	3.00	2.55	2.40	2.20
TR-243	3.30	2.80	2.64	2.42
TR-244	3.60	3.06	2.88	2.64
TR-245	3.60	3.06	2.88	2.64
TR-246	3.60	3.06	2.88	2.64
TR-247	3.60	3.06	2.88	2.64
TR-248	3.00	2.55	2.40	2.20
TR-249	3.60	3.06	2.88	2.64
TR-250	3.00	2.55	2.40	2.20
TR-251	3.00	2.55	2.40	2.20
TR-252	3.00	2.55	2.40	2.20
TR-253	3.00	2.55	2.40	2.20
TR-254	3.00	2.55	2.40	2.20
TR-255	3.30	2.80	2.64	2.42
TR-256	3.30	2.80	2.64	2.42
TR-257	2.10	1.79	1.68	1.54
TR-258	3.90	3.32	3.12	2.86
TR-259	2.10	1.79	1.68	1.54
TR-260	3.60	3.06	2.88	2.64
TR-261	3.90	3.32	3.12	2.86
TR-262	3.30	2.80	2.64	2.42
TR-263	3.60	3.06	2.88	2.64
TR-264	3.60	3.06	2.88	2.64
TR-265	3.00	2.55	2.40	2.20
TR-266	3.90	3.32	3.12	2.86
TR-267	3.90	3.32	3.12	2.86
TR-268	3.00	2.55	2.40	2.20
TR-269	10.80	9.18	8.64	7.92
TR-270	12.00	10.20	9.60	8.80
TR-271	12.00	10.20	9.60	8.80
TR-272	12.00	10.20	9.60	8.80
TR-273	12.00	10.20	9.60	8.80
TR-274	15.00	12.75	12.00	11.00
TR-275	15.00	12.75	12.00	11.00
TR-276	10.80	9.18	8.64	7.92
TR-277	12.00	10.20	9.60	8.80
TR-278	12.00	10.20	9.60	8.80
TR-279	12.00	10.20	9.60	8.80
TR-280	12.00	10.20	9.60	8.80
TR-281	15.00	12.75	12.00	11.00
TR-282	15.00	12.75	12.00	11.00
TR-283	12.00	10.20	9.60	8.80
TR-284	12.00	10.20	9.60	8.80
TR-285	15.00	12.75	12.00	11.00
TR-286	15.00	12.75	12.00	11.00
TR-287	9.00	7.65	7.20	6.60
TR-288	9.00	7.65	7.20	6.60
TR-294	10.80	9.18	8.64	7.92
TR-295	2.10	1.79	1.68	1.54
TR-296	2.10	1.79	1.68	1.54
TR-299	3.30	2.80	2.64	2.42
TR-300	2.10	1.79	1.68	1.54
TR-301	3.30	2.80	2.64	2.42
TR-303	2.10	1.79	1.68	1.54
TR-304	2.10	1.79	1.68	1.54
TR-305	1.50	1.28	1.20	1.10
TR-306	1.50	1.28	1.20	1.10
TR-307	4.50	3.85	3.60	3.14
TR-308	3.60	3.06	2.88	2.64
TR-309	4.20	3.57	3.36	3.08
TR-311	3.60	3.06	2.88	2.64
TR-315	3.60	3.06	2.88	2.64
TR-347	3.75	3.19	3.00	2.75
TR-348	3.60	3.06	2.88	2.64
TR-349	3.60	3.06	2.88	2.64
TR-350	3.00	2.55	2.40	2.20
TR-351	3.60	3.06	2.88	2.64
TR-352	.30	.25	.24	.22
TR-353	.30	.25	.24	.22

V

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
23V03	6.00	5.10	4.80	4.40
23V04	8.10	6.88	6.48	5.94
23V07	21.00	17.85	16.80	15.40
23V08	30.00	25.50	24.00	20.90
23V09	30.00	25.50	24.00	20.90
23V11	16.50	14.62	13.20	11.50
23V12	20.25	17.17	16.16	14.85
23V13	21.00	17.85	16.80	15.40
23V14	33.00	27.05	25.40	24.20
23V17	4.50	3.82	3.60	3.30
23V18	7.20	6.12	5.16	5.24
23V19	21.00	17.85	16.80	15.40
23V20	12.00	10.20	9.60	8.80
23V21	7.20	6.12	5.76	5.24
23V22	8.70	7.40	6.96	6.38
23V23	11.40	9.67	9.12	8.36
23V24	15.00	12.75	12.00	11.00
23V25	15.00	12.75	12.00	11.00
23V26	30.00	25.50	24.00	22.00
23V27	61.50	52.30	49.20	45.10
23V28	36.00	30.60	28.80	26.40
23V32	36.00	30.60	28.80	26.40
23V33	15.00	12.75	12.00	11.00
23V34	8.40	7.14	6.72	6.16
23V35	12.00	10.20	9.60	8.80
23V36	15.00	12.75	12.00	11.00
23V37	21.00	17.85	16.80	15.40
23V38	27.00	22.95	21.60	19.80
23V39	48.00	40.80	38.40	35.20
23V40	7.50	6.38	6.00	5.50
23V41	8.40	7.14	6.72	6.16
23V42	13.50	11.48	10.80	9.90
23V44	22.50	19.13	18.00	16.50
23V45	6.60	5.61	5.28	4.84
23V46	15.00	12.75	12.00	11.00
23V47	6.30	5.36	5.04	4.62
23V48	15.00	12.75	12.00	11.00
23V49	12.00	10.20	9.60	8.80
23V50	3.75	3.19	3.00	2.75
23V51	5.40	4.60	4.32	3.96
23V52	5.40	4.60	4.32	3.96
23V53	9.30	7.90	7.44	6.82
23V54	12.00	10.20	9.60	8.80
23V55	22.50	19.13	18.00	16.50
23V56	45.00	38.25	36.00	33.00
23V57	27.00	22.95	21.60	19.80
23V58	18.00	15.30	14.40	13.20
23V59	10.50	8.92	8.40	7.70
23V60	4.50	3.82	3.60	3.30
23V61	6.00	5.10	4.80	4.40
23V62	8.10	6.88	6.48	5.94

THORDARSON MEISSNER
INCORPORATED

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EFFECTIVE APRIL 1, 1963 **Form I-463**

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Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
V				
23V63	10.50	8.92	8.40	7.70
23V64	13.50	11.48	10.80	9.90
23V65	30.00	25.50	24.00	22.00
23V66	18.00	15.30	14.40	13.20
23V67	36.00	30.60	28.80	26.40
23V68	15.00	12.75	12.00	11.00
23V69	15.00	12.75	12.00	11.00
23V70	9.30	7.90	7.44	6.82
23V71	9.90	8.41	7.92	7.26
23V72	12.00	10.20	9.60	8.80
23V73	36.00	30.60	28.80	26.40
23V74	10.50	8.92	8.40	7.70
23V75	27.00	22.95	21.60	19.80
23V76	12.00	10.20	9.60	8.80
23V77	5.25	4.46	4.20	3.85
23V78	15.00	12.75	12.00	11.00
23V79	3.60	3.06	2.88	2.64
23V80	4.80	4.08	3.84	3.52
23V81	6.30	5.36	5.04	4.62
23V82	6.00	5.10	4.80	4.40
23V83	6.00	5.10	4.80	4.40
23V84	21.00	17.85	16.80	15.40
23V85	40.50	34.43	32.40	29.70
23V86	6.60	5.61	5.28	4.84
23V87	8.10	6.88	6.48	5.75
23V88	37.50	31.90	30.00	27.50
23V89	3.60	3.06	2.88	2.64
23V90	13.50	11.48	10.80	9.50
23V91	9.30	7.90	7.44	6.49
23V92	10.50	8.92	8.40	7.31
23V93	10.50	8.92	8.40	7.31
23V94	15.00	12.75	12.00	11.00
23V95	6.60	5.61	5.28	4.84
23V96	9.30	7.90	7.44	6.82
23V100	5.55	4.72	4.44	4.07
23V101	7.20	6.12	5.76	5.24
23V102	12.00	10.20	9.60	8.80
23V103	6.60	5.61	5.28	4.84
23V104	8.70	7.40	6.96	6.38
23V105	13.50	11.48	10.80	9.90
23V106	5.55	4.72	4.44	4.07
23V107	6.60	5.61	5.28	4.84
23V108	16.50	14.02	13.20	12.10
23V109	9.30	7.90	7.44	6.82
23V110	9.90	8.41	7.92	7.26
23V111	22.50	19.13	18.00	16.50
23V112	22.50	19.13	18.00	16.50
23V113	37.50	31.90	30.00	27.50
23V114	16.50	14.02	13.20	12.10
23V115	3.00	2.55	2.40	2.20
23V116	3.60	3.06	2.88	2.64
23V117	4.50	3.82	3.60	3.30
23V118	5.10	4.33	4.08	3.74
23V119	7.50	6.38	6.00	5.50
23V120	48.00	40.80	38.40	35.20
23V121	4.05	3.45	3.24	2.97
23V122	5.25	4.46	4.20	3.85
23V126	16.50	14.02	13.20	12.10
23V128	11.40	9.67	9.12	8.36
23V129	18.00	15.30	14.40	13.20
23V130	42.00	35.70	33.60	30.80
23V133	13.50	11.48	10.80	9.90
23V134	4.50	3.82	3.60	3.30
23V138	37.50	31.90	30.00	27.50
23V141	3.00	2.55	2.40	2.20
23V142	7.80	6.43	6.04	5.72
23V143	15.00	12.75	12.00	11.00
23V144	7.20	6.12	5.76	5.24
23V145	7.20	6.12	5.76	5.24
23V146	8.40	7.14	6.72	6.16
23V147	3.00	2.55	2.40	2.20
23V148	6.00	5.10	4.80	4.40
23V151	6.00	5.10	4.80	4.40
23V152	6.00	5.10	4.80	4.40
23V153	6.00	5.10	4.80	4.40
23V154	3.00	2.55	2.40	2.20
23V155	3.00	2.55	2.40	2.20
23V156	3.00	2.55	2.40	2.20
23V157	3.60	3.06	2.88	2.64
23V158	3.00	2.55	2.40	2.20
23V159	3.60	3.06	2.88	2.64
23V160	3.00	2.55	2.40	2.20
23V163	3.60	3.56	2.88	2.64
23V165	6.00	5.10	4.80	4.40
23V166	6.00	5.10	4.80	4.40
23V167	36.00	30.60	28.80	26.40
23V168	3.00	2.55	2.40	2.20
23V172	3.00	2.55	2.40	2.20
23V176	3.00	2.55	2.40	2.20
23V177	5.40	4.60	4.32	3.96
23V180	15.00	12.75	12.00	11.00
23V181	12.00	10.20	9.60	8.80
23V195	3.60	3.06	2.88	2.64
23V197	60.00	51.00	48.00	44.00
23V198	7.20	6.12	5.76	5.24
23V199	12.75	10.83	10.20	9.35
23V200	60.00	51.00	48.00	44.00
23V201	36.00	30.60	28.80	26.40
23V202	9.60	8.16	7.68	7.04
23V203	12.00	10.20	9.60	8.80
23V204	15.00	12.75	12.00	11.00
23V205	30.00	25.50	24.00	22.00
23V207	6.30	5.36	5.04	4.62
23V208	6.60	5.61	5.28	4.84
23V210	3.00	2.55	2.40	2.20
23V211	6.00	5.10	4.80	4.40
23V212	4.50	3.82	3.60	3.30
23V214	5.25	4.46	4.20	3.85
23V215	5.25	4.46	4.20	3.85
23V216	6.60	5.61	5.28	4.84
23V218	8.70	7.40	6.96	6.38
23V221	57.00	48.50	45.60	42.00
23V222	81.00	68.80	64.80	59.40
23V223	6.00	5.10	4.80	4.40
23V224	3.60	3.06	2.88	2.64
23V225	7.80	6.43	6.04	5.72
23V226	3.60	3.06	2.88	2.64
25V01	10.50	8.92	8.40	7.70
25V02	12.00	10.20	9.60	8.80
25V03	16.50	14.02	13.20	11.50
25V04	18.90	16.07	15.12	13.20
25V05	33.00	28.05	26.40	23.00
25V06	16.50	14.02	13.20	11.50
25V07	37.50	31.90	30.00	27.50
25V10	4.80	4.08	3.84	3.52
25V11	6.15	5.23	4.92	4.51
25V12	8.10	6.88	6.48	5.94
25V13	9.60	8.16	7.68	7.04
25V14	15.00	12.75	12.00	11.00
25V15	21.00	17.85	16.80	15.40
25V16	9.60	8.16	7.68	7.04
25V17	12.00	10.20	9.60	8.80
25V18	15.00	12.75	12.00	11.00
25V19	18.00	15.30	14.40	13.20
25V20	15.00	12.75	12.00	11.00
25V21	36.00	30.60	28.80	26.40
25V22	12.75	10.83	10.20	9.35
25V23	12.75	10.83	10.20	9.35
25V24	12.75	10.83	10.20	9.35
25V25	12.75	10.83	10.20	9.35
25V26	15.00	12.75	12.00	11.00
25V27	15.00	12.75	12.00	11.00
27V17	30.00	25.50	24.00	22.00
27V18	30.00	25.50	24.00	22.00
27V19	54.00	46.00	43.20	39.60
27V20	30.00	25.50	24.00	22.00
27V21	36.00	30.60	28.80	26.40
27V22	45.00	38.20	36.00	33.00
27V23	15.00	12.75	12.00	11.00
27V24	45.00	38.20	36.00	33.00
27V25	51.00	43.30	40.80	37.40
27V28	15.00	12.75	12.00	11.00
27V31	10.20	8.67	8.16	7.48
27V32	30.00	25.50	24.00	22.00
27V44	18.00	15.30	14.40	13.20

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

"THORDARSON" INDUSTRIAL NET PRICE LIST

EFFECTIVE APRIL 1, 1963

Form I-463

Quantity discounts apply only to individual items for delivery at one time. Items may not be combined to obtain quantity discounts.

Thordarson Meissner makes and sells thousands of additional transformers not listed on this price list because they are primarily for replacement and dealer use. For prices on these items see Thordarson Meissner dealer net price list (Form D-463) effective April 1, 1963.

Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499	Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499	Thordarson Part No.	1 to 4	5 to 49	50 to 99	100 to 499
V														
27V45	24.00	20.40	19.20	17.60										
27V46	30.00	25.50	24.00	22.00										
27V47	18.00	15.30	14.40	13.20										
27V48	24.00	20.40	19.20	17.60										
27V49	30.00	25.50	24.00	22.00										
27V54	12.00	10.20	9.60	8.80										
27V55	12.00	10.20	9.60	8.80										
27V56	15.00	12.75	12.00	11.00										
27V57	19.50	14.98	14.00	14.30										
27V58	22.50	19.13	18.00	16.50										
27V60	10.50	8.92	8.40	7.70										
27V61	12.00	10.20	9.60	8.36										
27V62	12.90	10.97	10.32	9.00										
27V63	18.00	15.30	14.40	12.30										
27V64	25.50	21.68	20.40	18.70										
27V65	48.00	40.80	38.40	35.20										
27V66	18.00	15.30	14.40	13.20										
27V67	9.30	7.90	7.74	6.50										
27V68	11.40	9.67	9.12	8.36										
27V69	16.50	14.00	13.20	11.50										
27V70	27.00	22.95	21.60	19.00										
27V71	40.50	34.50	32.40	29.50										
27V72	40.50	34.50	32.40	29.50										
27V73	24.00	20.40	19.20	16.80										

THORDARSON MEISSNER
INCORPORATED

PHONE: 262-5121 (area code 618)
ELECTRONIC CENTER, MT. CARMEL, ILLINOIS

Printed in USA

(APRIL 1,1963)
INDUSTRIAL NET PRICE LIST

SWITCHMASTER
Form I-463S

STALEY TIME CYCLE CONTROLLERS

MODEL NO.	NET PRICE	Enclosure NET PRICE
101 *	$ 35.00	
101-1 *	35.00	
200	60.00 + $10/SPST CIRCUIT	$8.00 + $1.00/SPST CIRCUIT
201 *	35.00	
635	110.00 + 10/SPST CIRCUIT	8.00 + 1.00/SPST CIRCUIT
648	30.00 + 10/SPST CIRCUIT	8.00 + 1.00/SPST CIRCUIT
702 2-LEVEL	100.00 + 10/SPST CIRCUIT	
702 3-LEVEL	130.00 + 10/SPST CIRCUIT	
702 4-LEVEL	160.00 + 10/SPST CIRCUIT	
748 2-LEVEL	60.00 + 10/SPST CIRCUIT	
748 3-LEVEL	100.00 + 10/SPST CIRCUIT	
748 4-LEVEL	130.00 + 10/SPST CIRCUIT	
802	100.00 + 10/SPST CIRCUIT	8.00 + 1.00/SPST CIRCUIT

* Furnished with enclosure at no additional cost.

OPTIONAL EQUIPMENT

NAME	PART NO.	NET PRICE ON CONTROLLER
ELECTROMAGNETIC BRAKE	61212	$30.00 EACH
OVERRIDING CLUTCH, L.H.	61214	30.00 EACH
OVERRIDING CLUTCH, R.H.	61229	30.00 EACH
SPDT ROCKER ASSEMBLY	6314	16.00 EACH
DPST ROCKER ASSEMBLY	6317	20.00 EACH
DPDT ROCKER ASSEMBLY	63121	30.00 EACH
SYMMETRICAL MULTI-LOBE CAMS	–	5.00 PER CAM ASSEMBLY (Specify no. of Lobes)
SYNCHRONOUS MOTOR, 110V, 60C, 1/5RPM to 100RPM	–	15.00
FRONT-FACING TIMING DIAL	–	30.00
HORIZONTAL TERMINAL PANEL	–	15.00
COMPOUND-GEAR SUPPORT ASSEMBLY	–	25.00 (Includes 2 Gears)

STALEY METAL MERCURY SWITCHES

Series 300

MODEL	NOMINAL RATING	NET PRICE
305	5 AMP.	$1.80

Series 300E

MODEL	NOMINAL RATING	NET PRICE
305E	5 AMP.	$2.10
310E	10 AMP.	2.25
315E	20 AMP.	2.50

Series 400

MODEL	NOMINAL RATING	NET PRICE
405	5 AMP.	$2.35
410	10 AMP.	2.70
415	20 AMP.	3.10

Series 400W

MODEL	NOMINAL RATING	NET PRICE
405W	5 AMP.	$2.55
410W	10 AMP.	2.90
415W	20 AMP.	3.30

SERIES 400 and 400W Switches are normally furnished with lead lengths of 5 inches. For special lengths up to and including 24 inches, add 30¢ to net price.

QUANTITY DISCOUNT SCHEDULE	
1 to 9	NET
10 to 49	NET -10%
50 to 99	NET -20%
100 to 499	NET -25%

(A) PRICES and DISCOUNTS shown herein are effective as of issue date of this schedule.

(B) DISCOUNTS are based on quantity ordered and shipped against one individual order. This schedule lists only the credits or discounts to which the buyer is entitled.

(C) WARRANTY — We warrant our Staley Switches and Controllers to be free from defects in material and workmanship, and we will replace any such switch or controller we find to be defective on its return to us within one hundred eighty days after its delivery to the original purchaser. This warranty is exclusive of all others, express or implied.

SWITCH MASTER

SWITCHMASTER CORPORATION

Electronic Center, Mt. Carmel, Illinois

A Subsidiary of COMPONENTS CORPORATION OF AMERICA

PHONE: 262-5121
(area code 618)

MOUNTING CLIPS & BANDS

For Switch Model No.	Clip No.	Band No.	NET PRICE
305, 305E, 310E	60924	60937	20¢
315E	60936	60939	20¢
405, 405W, 410, 410W	60941	60956	20¢
415, 415W	60942	60958	20¢

NOTE: . For quantity orders see discount schedule.

SPARE PARTS

STALEY TIME CYCLE CONTROLLERS

SPEED CHANGE GEARS
Plain

No. of Teeth	Part Number	NET PRICE
12	6139	$ 3.00
16	6131	3.30
18	6138	3.60
20	61311	3.90
24	6132	4.20
28	61310	4.50
30	61319	4.80
32	6133	5.10
36	61320	5.40
40	61322	5.70
44	61324	6.00
48	6134	6.50
52	61326	7.00
56	61327	7.50
60	61328	8.00
64	6135	8.50
72	61312	9.00
80	6136	9.50
88	61329	10.00
96	6137	10.50

SPEED CHANGE GEARS
Slotted Hub

(for use with overriding clutch)

No. of Teeth	Part Number	NET PRICE
32	61314	$ 6.00
48	61313	7.50
64	61317	9.00
80	61331	10.00
96	61332	13.50

DESCRIPTION	PART NUMBER	NET PRICE
Brake, electromagnetic, 110 volts, 60 cycles	61212	$22.50
Brake coil, 110 volts, 60 cycles	O-3A	9.00
Brake shoe (cork)	60968	.50
Brake spring	60969	1.25
Cam, single-lobe (max. speed of 5,20,40,60, or 100 RPM) set of 3	—	4.50
Cam, symmetrical multi-lobe (max. speed as given above) set of 3	—	7.50
Cam adjusting wrench	60921	.50
Cam holder	60979	2.00
Cam holder nut	60980	.60
Clutch, overriding, L.H.	61214	22.50
Clutch, overriding, R.H.	61229	22.50
Compound gear support assembly (less gears)	61225	15.00
Dial, timing, CCW rotation (CW graduation)	609169	2.00
Dial, timing, CW rotation (CCW graduation)	609213	2.00
Motor, geared shaded-pole, 110 V, 60 C in speeds of 1/10, 1/5, 1/4, 1/3, 1/2, 1, 2, 5, 10, 15, 20, 30, 40, 60, and 100 RPM	—	26.00
Motor, geared synchronous, 110 V, 60 C in speeds from 1/5 to 100 RPM	—	40.00
Motor adjusting plate (plain)	60940	2.50
Motor adjusting plate (brake)	61231	6.00
Rocker assembly		
SPST (less model 315E switch)	63115	5.00
SPDT (less model 315E switches)	6314	7.50
DPST (less model 315E switches)	6317	7.50
DPDT (less model 315E switches)	63121	10.00
Switch, Staley Metal Mercury	315E	2.50
Terminal	60913	.25
Terminal screw	J-23	.10

Cross Reference

TRIAD to THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M
A-1X	20A35	A-81X	20D88	C-2X	20C102	C-36X	26C80	D-60	FLY-114
A-4X	20A08	A-83X	20D89	C-3X	20C66	C-38AL	20C34	D-61	FLY-22
A-5X	20A09	A-85X	20D86	C-4X	20C47	C-39A	20C41	D-62	FLY-22
A-6X	20A12	A-95X	24A87	C-5X	20C53	C-40X	26C81	D-63	FLY-23
A-7J	20A15	A-96X	26A01	C-6X	20C59 ††	C-42AL	20C20	D-64	FLY-169
A-9J	25A100	A-97K	24A88	C-7X	20C06	C-43X	20C29	D-65	FLY-37
A-10J	25A101	A-97X	26A03	C-8X	20C48	C-45AL	20C24	D-66	FLY-92
A-11J	25A102	A-97Y	26A04	C-9X	20C07	C-47U	20C25	D-67	FLY-63
A-12J	25A103	A-98K	24A90	C-10X	20C09	C-48U	20C26	D-68	FLY-63
A-13J	25A104	A-98X	24A89 *	C-11X	20C08	C-49U	20C27	D-69	FLY-33
A-21X	20A80	A-99X	26S53	C-12A	20C10	C-80U	20C28	D-70	FLY-27
A-23X	24S80	A-101U	24S86	C-12X	20C11	D-11	FLY-1	D-71	FLY-80
A-31X	20A18	A-102X	26S52	C-13X	20C12	D-14R	FLY-3	D-72	FLY-73
A-33X	20A22	A-104X	26S54	C-14A	20C13	D-19	FLY-12	D-73R	FLY-158
A-35A	20A23 *	A-108X	26S72	C-14X	20C14	DA-20	FLY-2	D-74	FLY-159
A-39A	20A13	A-111X	26S51	C-15A	20C15	D-22	FLY-12	D-75	FLY-78
A-40J	25A110	A-112X	26S05 ¢	C-15X	20C16	D-28	FLY-14	D-76R	FLY-88
A-41J	25A111	A-114X	26S28	C-16A	26C45	D-35	FLY-38	D-77	FLY-120
A-42Z	20A14	A-115X	26S01	C-17X	26C93	D-40	FLY-6	D-78	FLY-91
A-50J	25S68	A-115Z	26S19 †	C-18A	20C17	D-41	FLY-10	D-79	FLY-58
A-51X	22S75	A-117X	26S70 ¢	C-19A	20C18	D-42	FLY-21	D-80	FLY-106
A-52J	25A105	A-120X	26A06	C-20A	20C22	D-43	FLY-13	D-81	FLY-89
A-53X	24S114	A-120Z	26A02	C-21X	26C43	D-44	FLY-160	D-82	FLY-11
A-55J	25S69	A-122X	26A05	C-22A	20C23	D-45R	FLY-52	D-83R	FLY-97
A-56J	25S67	A-131X	26S30	C-23X	26C44 †††	D-46	FLY-12M	D-84	FLY-41
A-57J	25A112	A-133X	26S22	C-24X	26C76	D-47R	FLY-56	D-85	FLY-93
A-58J	25A109	A-134X	26S29	C-25A	20C19	D-48	FLY-25	D-86	FLY-113
A-64J	25A106	A-135X	26S71	C-26X	20C62	D-49	FLY-75	D-87	FLY-24W
A-65J	25S70	A-136X	26S26	C-27X	26C77	D-50	FLY-16	D-90	FLY-147
A-66J	25S71	A-137X	26S25	C-28X	26C78	D-52	FLY-45	D-91	FLY-24
A-67J	25A113	A-138X	26S06	C-29X	20C21	D-53	FLY-43	D-92	FLY-248
A-68J	25S72	A-140X	26S08	C-30X	20C04	D-54	FLY-66	D-93	FLY-60
A-69J	25S73	A-141X	26S27	C-31A	20C30	D-55	FLY-4	D-94R	FLY-151
A-70J	25A107	A-144X	26S24	C-32AL	20C32	D-56	FLY-59	D-95	FLY-124
A-77J	25C10	A-200P	25A114	C-33A	20C31	D-57	FLY-54	D-96	FLY-131
A-78J	25S74	A-202P	25A115	C-34X	26C79	D-58	FLY-117	D-97R	FLY-121
A-79J	25A108	C-1X	20C05	C-35A	20C33	D-59	FLY-116	D-98R	FLY-57

* Mounting dimensions for the Triad unit are not the same as the T-M unit. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

¢ Minor electrical difference exists between the Triad and T-M units. See your T-M catalog for complete specifications.

† The Triad unit is mounted by means of a vertical channel frame, while the otherwise identical T-M unit is mounted with a horizontal channel frame.

†† The Triad C-6X is rated at 5H @ 65MADC @ 330 Ohms, while the 20C59 is rated at 7 H @ 55MADC @ 200 Ohms. The inductance of the 20C59 will be approximately 6H at the 65MADC level.

††† The Triad C-23X is rated at 1.2H @ 260MADC @ 45 Ohms while the 26C44 is rated at 1H @ 300MADC @ 60 Ohms. The inductance of the 26C44 will be approximately 1.2H @ the 260MADC level.

THORDARSON MEISSNER
INCORPORATED
A Subsidiary of COMPONENTS CORPORATION OF AMERICA

PHONE: 262-5121 (area code 618)
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Cross Reference

TRIAD to THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M
D-99	FLY-90	D-156	FLY-26	D-201	FLY-218	EA-015	TOR-856	EC-004A	TOR-778
D-100	FLY-107	D-157	FLY-78	D-202	FLY-210	EA-015A	TOR-756	EC-005	TOR-879
D-101	FLY-76	D-158	FLY-183	D-203	FLY-174	EA-020	TOR-857	EC-005A	TOR-779
D-102	FLY-157	D-159	FLY-148	D-204	FLY-178 ‡	EA-020A	TOR-757	EC-007	TOR-880
D-103	FLY-134	D-160	FLY-201	D-205	FLY-184	EA-025	TOR-858	EC-007A	TOR-780
D-104	FLY-153	D-161	FLY-168	D-206	FLY-175	EA-025A	TOR-758	EC-010	TOR-881
D-105	FLY-136	D-162	FLY-145	D-207	FLY-209	EA-030	TOR-859	EC-010A	TOR-781
D-106	FLY-103	D-163	FLY-166	D-208	FLY-79	EA-030A	TOR-759	EC-015	TOR-882
D-107	FLY-14	D-164	FLY-177 ‡	D-209	FLY-162	EA-040	TOR-860	EC-015A	TOR-782
D-108	FLY-143	D-166	FLY-211	D-210	FLY-208	EA-040A	TOR-760	EC-020	TOR-883
D-109	FLY-28	D-167	FLY-229	D-211	FLY-213	EA-050	TOR-861	EC-020A	TOR-783
D-110	FLY-155	D-168	FLY-204	D-212	FLY-167	EA-050A	TOR-761	EC-030	TOR-884
D-111	FLY-68	D-169	FLY-192	D-602	FLY-165	EA-070	TOR-862	EC-030A	TOR-784
D-112	FLY-7A	D-171	FLY-173	D-607	FLY-98 ‡	EA-070A	TOR-762	EC-040	TOR-885
D-113	FLY-36	D-172	FLY-191	D-608	FLY-96	EA-100	TOR-864	EC-040A	TOR-785
D-114	FLY-37	D-173	FLY-189	D-609	FLY-95	EA-100A	TOR-764	EC-050	TOR-886
D-115	FLY-39	D-174	FLY-187 ‡	D-612	FLY-115	EA-150	TOR-865	EC-050A	TOR-786
D-116	FLY-85	D-175	FLY-196	D-613	FLY-245	EA-150A	TOR-765	EC-070	TOR-887
D-117	FLY-109	D-176	FLY-186	D-615	FLY-149	EA-200	TOR-866	EC-070A	TOR-787
D-119	FLY-12	D-177	FLY-198	D-616	FLY-17	EA-200A	TOR-766	EC-100	TOR-888
D-120	FLY-207	D-178	FLY-171	D-617	FLY-253	EA-250	TOR-867	EC-100A	TOR-788
D-121	FLY-202	D-179	FLY-180	D-618	FLY-254	EA-250A	TOR-767	EC-200	TOR-889
D-122	FLY-127	D-180	FLY-55	D-619	FLY-252	EA-300	TOR-868	EC-200A	TOR-789
D-123	FLY-141	D-181	FLY-246	D-620	FLY-110	EA-300A	TOR-768	EC-250	TOR-890
D-124	FLY-146	D-182	FLY-156	D-621	FLY-161	EA-400	TOR-869	EC-250A	TOR-790
D-125	FLY-105	D-183	FLY-179	D-622	FLY-129	EA-400A	TOR-769	EC-300	TOR-891
D-126	FLY-123	D-184	FLY-197	D-638	FLY-251	EA-500	TOR-870	EC-300A	TOR-791
D-127	FLY-191	D-185	FLY-200	EA-001	TOR-848	EA-500A	TOR-770	EC-400	TOR-892
D-128	FLY-135	D-186	FLY-150 ‡	EA-001A	TOR-748	EA-600	TOR-871	EC-400A	TOR-792
D-129	FLY-154	D-187	FLY-212	EA-002	TOR-849	EA-600A	TOR-771	EC-500	TOR-893
D-130R	FLY-118	D-188R	FLY-163 ‡	EA-002A	TOR-749	EA-700	TOR-872	EC-500A	TOR-793
D-132	FLY-205	D-190	FLY-75	EA-003	TOR-850	EA-700A	TOR-772	EC-600	TOR-894
D-134	FLY-27	D-191	FLY-172	EA-003A	TOR-750	EA-1000	TOR-874	EC-600A	TOR-794
D-135	FLY-194	D-192	FLY-249	EA-004	TOR-851	EA-1000A	TOR-774	EC-700	TOR-895
D-136	FLY-195	D-193	FLY-20	EA-004A	TOR-751	EC-001	TOR-875	EC-700A	TOR-795
D-137	FLY-81	D-194	FLY-176	EA-005	TOR-852	EC-001A	TOR-775	EC-1000	TOR-896
D-139	FLY-100	D-195	FLY-247	EA-005A	TOR-752	EC-002	TOR-876	EC-1000A	TOR-796
D-142	FLY-30	D-197	FLY-217	EA-007	TOR-853	EC-002A	TOR-776	EC-1500	TOR-897
D-151R	FLY-137	D-198	FLY-182	EA-007A	TOR-753	EC-003	TOR-877	EC-1500A	TOR-797
D-154	FLY-227	D-199	FLY-170	EA-010	TOR-855	EC-003A	TOR-777	EC-2000	TOR-898
D-155	FLY-184	D-200	FLY-150	EA-010A	TOR-755	EC-004	TOR-878	EC-2000A	TOR-798

‡ Triad replacement information differs from T-M recommendation. Please consult T-M replacement guide for recommended flyback replacements.

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Cross Reference

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PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M
EC-3000	TOR-899	EK-700A	TOR-7119	EM-030	TOR-810	ET-010A	TOR-730	F-9A	21F64
EC-3000A	TOR-799	EK-1000	TOR-920	EM-030A	TOR-710	ET-015	TOR-831	F-9U	21F65
EC-4000	TOR-900	EK-1000A	TOR-7120	EM-040	TOR-811	ET-015A	TOR-731	F-10U	21F20
EC-4000A	TOR-7100	EK-2000	TOR-921	EM-040A	TOR-711	ET-020	TOR-832	F-11U	21F67
EC-5000	TOR-901	EK-2000A	TOR-7121	EM-050	TOR-812	ET-020A	TOR-732	F-12X	21F63
EC-5000A	TOR-7101	EK-3000	TOR-922	EM-050A	TOR-712	ET-025	TOR-833	F-13X	21F21
EC-7000	TOR-902	EK-3000A	TOR-7122	EM-060	TOR-813	ET-025A	TOR-733	F-14X	21F09
EC-7000A	TOR-7102	EK-4000	TOR-923	EM-060A	TOR-713	ET-030	TOR-834	F-15U	26F66
EC-10000	TOR-903	EK-4000A	TOR-7123	EM-070	TOR-814	ET-030A	TOR-734	F-16X	21F10
EC-10000A	TOR-7103	EK-5000	TOR-924	EM-070A	TOR-714	ET-040	TOR-835	F-17U	21F76
EK-010	TOR-904	EK-5000A	TOR-7124	EM-100	TOR-815	ET-040A	TOR-735	F-18A	21F42
EK-010A	TOR-7104	EK-7000	TOR-925	EM-100A	TOR-715	ET-050	TOR-836	F-18X	21F72 *
EK-020	TOR-905	EK-7000A	TOR-7125	EM-150	TOR-816	ET-050A	TOR-736	F-19X	21F73
EK-020A	TOR-7105	EK-10000	TOR-926	EM-150A	TOR-716	ET-060	TOR-837	F-20U	21F75
EK-030	TOR-906	EK-10000A	TOR-7126	EM-200	TOR-817	ET-060A	TOR-737	F-21A	21F74
EK-030A	TOR-7106	EK-20000	TOR-927	EM-200A	TOR-717	ET-070	TOR-838	F-22A	21F77
EK-040	TOR-907	EK-20000A	TOR-7127	EM-250	TOR-818	ET-070A	TOR-738	F-23U	21F28 *
EK-040A	TOR-7107	EK-30000	TOR-928	EM-250A	TOR-718	ET-100	TOR-839	F-24U	21F78
EK-050	TOR-908	EK-30000A	TOR-7128	EM-300	TOR-819	ET-100A	TOR-739	F-25X	26F67 Δ
EK-050A	TOR-7108	EK-40000	TOR-929	EM-300A	TOR-719	ET-150	TOR-840	F-26X	21F81
EK-060	TOR-909	EK-40000A	TOR-7129	EM-400	TOR-820	ET-150A	TOR-740	F-27U	21F85
EK-060A	TOR-7109	EM-001	TOR-800	EM-400A	TOR-720	ET-200	TOR-841	F-28U	21F79
EK-080	TOR-910	EM-001A	TOR-700	EM-500	TOR-821	ET-200A	TOR-741	F-29U	21F68
EK-080A	TOR-7110	EM-002	TOR-801	EM-500A	TOR-721	ET-250	TOR-842	F-30A	21F86
EK-100	TOR-911	EM-002A	TOR-701	EM-700	TOR-822	ET-250A	TOR-742	F-32A	21F87
EK-100A	TOR-7111	EM-003	TOR-802	EM-700A	TOR-722	ET-300	TOR-843	F-34A	21F88
EK-120	TOR-912	EM-003A	TOR-702	EM-1000	TOR-823	ET-300A	TOR-743	F-36A	21F24
EK-120A	TOR-7112	EM-004	TOR-803	EM-1000A	TOR-723	ET-400	TOR-844	F-38A	21F89
EK-150	TOR-913	EM-004A	TOR-703	ET-001	TOR-824	ET-400A	TOR-744	F-40X	21F82
EK-150A	TOR-7113	EM-005	TOR-804	ET-001A	TOR-724	ET-500	TOR-845	F-41X	21F83
EK-200	TOR-914	EM-005A	TOR-704	ET-002	TOR-825	ET-500A	TOR-745	F-42A	21F90
EK-200A	TOR-7114	EM-007	TOR-805	ET-002A	TOR-725	ET-700	TOR-846	F-43X	21F71
EK-250	TOR-915	EM-007A	TOR-705	ET-003	TOR-826	ET-700A	TOR-746	F-44X	26F67
EK-250A	TOR-7115	EM-010	TOR-806	ET-003A	TOR-726	ET-1000	TOR-847	F-45X	21F84
EK-300	TOR-916	EM-010A	TOR-706	ET-004	TOR-827	ET-1000A	TOR-747	F-47U	23V100
EK-300A	TOR-7116	EM-015	TOR-807	ET-004A	TOR-727	F-1X	21F120	F-48U	23V101
EK-400	TOR-917	EM-015A	TOR-707	ET-005	TOR-828	F-3X	21F93	F-49U	23V102
EK-400A	TOR-7117	EM-020	TOR-808	ET-005A	TOR-728	F-5U	21F02	F-50X	26F65
EK-500	TOR-918	EM-020A	TOR-708	ET-007	TOR-829	F-6X	21F92	F-51X	21F69
EK-500A	TOR-7118	EM-025	TOR-809	ET-007A	TOR-729	F-7X	21F94	F-52X	26F60
EK-700	TOR-919	EM-025A	TOR-709	ET-010	TOR-830	F-8X	21F60	F-53X	21F70

* Mounting dimensions for the Triad unit are not the same as the T-M unit. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

Δ The Triad F-25X is rated at 1.5 Amps, while the otherwise identical 26F67 is rated at 2 Amps.

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TRIAD to THORDARSON MEISSNER (T-M)

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PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M
F-60U	23V103	G-18	GEO-78	G-150	GEO-44	HS-5	27A75	HSM-200	27R18
F-61U	23V104	G-18TS	GEO-79	G-155	GEO-45	HS-8	27A76	HSM-201	27R19
F-62U	23V108	G-19	GEO-80	G-183	GEO-60	HS-11	27A71	HSM-203	27R24
F-63U	23V106	G-20H	GEO-68	G-201	GEO-16	HS-14	27A14	HSM-205	27R61
F-64U	23V107	G-21	GEO-69	G-235	GEO-29	HS-15	27A74	HSM-207	27R25
F-65U	23V110	G-22	GEO-71	G-250	GEO-44	HS-23	27A77	HSM-212	27R27
F-66U	23V111	G-22H	GEO-70	G-255	GEO-45	HS-25	27A78	HSM-216	27R29
F-67U	23V105	G-23	GEO-72	G-266	GEO-51	HS-27	27A11	HSM-223	27F01
F-68U	23V109	G-25	GEO-73	G-274	GEO-52	HS-29	27A12	HSM-224	27F02
F-71U	21F58 *	G-30	GEO-81	G-275	GEO-53	HSM-31	27A80	HSM-225	27F33
F-72Z	21F31	G-30TS	GEO-82	G-276	GEO-54	HS-32	27A13	HSM-226	27F34
F-79U	23V112	G-31	GEO-22	G-284	GEO-61	HS-35	27A79	HSM-227	27F04
F-80U	23V113	G-32	GEO-23	G-285	GEO-62	HS-50	27S17	HSM-228	27F12
F-83A	21F91	G-33	GEO-24	G-301	GEO-17	HS-52	27S75	HSM-229	27F05
F-84AC	23V114	G-34	GEO-25	G-306	GEO-18	HS-54	27S76	HSM-230	27F08
F-90X	23V116	G-36	GEO-27	G-313	GEO-19	HS-56	27S77	HSM-231	27F13
F-91X	23V117	G-36TS	GEO-83	G-315	GEO-20	HS-58	27S79	HSM-233	27F06
F-92A	23V119	G-40	GEO-26	G-335	GEO-30	HS-60	27S73	HSM-234	27F03
F-93X	23V118	G-40TS	GEO-84	G-336	GEO-31	HS-61	27S74	HSM-236	27F11
F-94X	23V115	G-48	GEO-28	G-350	GEO-46	HS-66	27S78	HSM-237	27F07
F-102X	23V03	G-48TS	GEO-85	G-355	GEO-47	HS-71	27S69	HSM-238	27F23
F-104U	23V04	G-51	GEO-34	G-388	GEO-64	HS-73	27S70	HSM-239	27F09
G-1	GEO-1	G-51A	GEO-35	G-389	GEO-65	HS-75	27S71	HSM-240	27F10
G-2	GEO-2	G-52	GEO-36	G-391	GEO-66	HS-77	27S72	HSM-241	27R26
G-3	GEO-3	G-53	GEO-37	G-394	GEO-67	HSM-79	27S54	HSM-245	27R28
G-2H3	GEO-74	G-53A	GEO-38	G-401	GEO-21	HSM-80	27S55	HS-247	27R30
G-4	GEO-4	G-54	GEO-39	G-435	GEO-32	HSM-81	27S56	HSM-270	27V44
G-4H3	GEO-75	G-57	GEO-41	G-435TS	GEO-86	HSM-82	27S57	HSM-271	27V45
G-5	GEO-5	G-58	GEO-40	G-437	GEO-33	HSM-84	27S60	HSM-272	27V46
G-5TS	GEO-76	G-64	GEO-42	G-437TS	GEO-87	HSM-94	27S66	HS-273P	25A116
G-7	GEO-6	G-65	GEO-43	G-455	GEO-48	HSM-181	27S58	HSM-301	27C35
G-8	GEO-7	G-72	GEO-49	G-475	GEO-55	HSM-182	27S59	HSM-302	27C12 **
G-9	GEO-8	G-74	GEO-50	G-493	GEO-63	HSM-184	27S61	HS-303	27C33
G-10	GEO-9	G-80	GEO-56	HC-25	27V47	HSM-186	27S64	HSM-305	27C72
G-12	GEO-10	G-84	GEO-57	HC-115	27V48	HSM-187	27S65	HSM-307	27C74
G-14	GEO-11	G-85	GEO-58	HC-300	27V49	HSM-189	27S62	HSM-309	27C20 ***
G-15	GEO-12	G-92	GEO-59	HS-1	27A70	HSM-190	27S63	HSM-315	27C76
G-16	GEO-13	G-101	GEO-15	HS-3	27A72	HSM-192	27S67	HSM-319	27C36
G-17	GEO-14	G-101TS	GEO-77	HS-4	27A73	HSM-193	27S68	HS-331	27C70

* Mounting dimensions for the Triad unit are not the same as the T-M unit. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

** The Triad HSM-302 is rated at 14H @ 20MADC, 560 Ohms, while the 27C12 is rated at 15H @ 20MADC, 680 Ohms.

*** The Triad HSM-309 is rated at 9H @ 150 MADC, 115 Ohms, while the 27C20 is rated at 8H @ 150MADC, 100 Ohms.

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HS-333	27C71	JAF-14	27A87	N-4M	23V82	P-216AL	21P68	R-22A	22R94
HS-335	27C73	JAF-15	27A88	N-5M	23V23	P-217AL	21P69	R-22B	22R95
HS-339	27C75	JAF-21	27S80	N-7M	23V78	P-218AL	21P70	R-23B	24R68
HS-341	27C34	JAF-22	27S81	N-9M	23V84	P-220AL	21P71	R-24A	22R64
HS-401	27R62	JAF-23	27S82	N-11M	23V120	R-2C	24R67	R-24B	22R65
HS-402	27R31	JAF-24	27A89	N-34X	23V77	R-3A	24R69	R-25A	22R59
HS-405	27R32	JAF-25	27S83	N-35M	23V76	R-4A	24R11U ‡‡	R-26A	22R49
HS-407	27R33	JAF-26	27S84	N-50M	23V07	R-4B	24R11 ‡‡	R-27A	22R58
HS-409	27R34	JAF-31	27A90	N-51X	23V17	R-5A	22R90	R-28A	22R51
HS-413	27R35	JAF-32	27S85	N-52M	23V57	R-5B	22R91	R-29A	24R70
HS-415	27R36	JAF-33	27A91	N-53M	23V18	R-6A	24R19U	R-30X	24R71
HS-417	27R37	JAF-34	27A92	N-54M	23V49	R-6B	24R19	R-33BC	26R104
HS-425	27F35	JAF-35	27A93	N-55M	23V58	R-7A	22R92	R-36A	26R103
HS-427	27F60	JAF-101	27C67	N-56M	23V55	R-7B	22R93	R-36BC	26R35
HS-433	27F17	JAF-102	27C68	N-57M	23V44 *	R-8A	24R09U	R-37BC	26R01
HS-435	27F18	JO-21	27S27	N-62AC	23V39 *	R-8B	24R09	R-38A	26R86 §§
HS-436	27F14	JO-22	27S28	N-64AC	23V38 *	R-9A	24R21U	R-38BC	26R95 ¢¢
HS-438	27F16	JZ-1	27A94	N-66A	23V94	R-9B	24R21	R-39BC	26R91
HS-441	27F19	JZ-5	27A95	N-67A	23V74	R-10A	22R96	R-40BC	26R02
HS-442	27F21	JZ-7	27A96	N-68X	23V80	R-10B	22R97	R-41C	24R75
HS-443	27F20	JZ-13	27A97	N-73A	23V59	R-11A	24R04U	R-42BC	26R03
HS-444	27F22	JZ-15	27A98	N-469A	23V95	R-11B	24R04	R-43C	24R77
HS-445	27F15	JZ-25	27S86	N-470A	23V96	R-12A	22R98	R-44BS	26R98 ¢
HS-470	27V54	JZ-26	27S87	N-471A	23V133	R-12B	22R99	R-45C	24R76
HS-471	27V55	M-1X	21M73	P-1A	24R82	R-14A	24R05U	R-46A	22R56
HS-472	27V56	M-3X	21M75	P-3A	24R83	R-14B	24R05	R-47BS	26R20
HS-474	27V57	M-4Z	21M55	P-5A	24R84	R-16A	24R18 ■	R-48BS	26R85
HS-475	27V58	M-5Z	21M74	P-7A	24R85	R-17A	22R68	R-49BC	26R04
JAF-1	27A81	M-6X	21M76	P-9A	24R86	R-18A	24R48	R-49BS	26R07
JAF-2	27A82	M-7AL	21M77	P-11A	21P65	R-18B	24R49	R-50A	26R06
JAF-3	27A83	M-12AL	21M62A	P-15AL	21P88	R-19A	22R66	R-50BC	26R05
JAF-5	27A84	M-15A	21M71	P-17AL	21P92	R-20A	22R87	R-51BC	26R88
JAF-11	27A85	M-16AL	21M61A	PR-21AL	21P72	R-20B	22R88	R-52BC	26R08
JAF-12	27A86	N-1X	23V79	P-213AL	21P66	R-21A	24R07U	R-54X	24R72
JAF-13	27A15	N-3M	23V81	P-215AL	21P67	R-21B	24R07	R-56A	24R73

* Mounting dimensions for the Triad unit are not the same as the T-M unit. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

¢¢ The Triad R-38BC is rated at 6.3 Volts @ 10 Amps and 6.3 Volts at 2.5 Amps, while the 26R95 is rated at 6.3 Volts at 7 Amps and 6.3 Volts @ 5 Amps. All other ratings are directly interchangeable.

¢ Minor electrical difference exists between the Triad and T-M units. See your T-M catalog for complete specifications.

■ The Triad R-16A is rated at 6.3 Volts C.T. @ 5 Amps, while the 24R18 is rated at 6.3 Volts @ 6.5 Amps. All other ratings are directly interchangeable.

§§ The Triad R-38A is rated at 6.3 Volts @ 10 Amps and 6.3 Volts @ 2.5 Amps, while the 26R86 is rated at 6.3 Volts @ 7 Amps and 6.3 Volts @ 5 Amps. All other ratings are directly interchangeable.

‡‡ The Triad R-4A and R-4B are rated at 250-0-250 Volts @ 40MADC and 6.3 Volts C.T. @ 2 Amps, while the 24R11 and 24R11U are rated at 230-0-230 Volts @ 50MADC and 6.3 Volts @ 2.5 Amps. Mounting dimensions of the Triad units are not the same as the T-M units.

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Cross Reference

TRIAD to THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M
R-58A	24R15	R-104A	24R50	R-126A	26R131	S-15X	24S56 δδ	S-48Z	22S26
R-60BC	26R09	R-104B	24R51	R-127A	26R112	S-16X	22S22	S-49X	22S33
R-61BC	26R88 ★	R-105A	24R52	R-128BC	26R125	S-17X	24S98	S-50X	22S34
R-62BC	26R57	R-105B	24R53	R-129BC	26R117	S-18X	26S48 ¢	S-51X	24S60 #
R-64BC	26R10	R-106A	24R19U	R-130HA	26R114	S-18Z	22S36	S-52X	22S73
R-65BC	26R11	R-106B	24R19	R-131A	26R119	S-19Z	24S19 δ	S-53X	24S06 #
R-66BC	26R12	R-107A	24R54	R-132BC	26R111	S-20X	24S53	S-54X	24S61 #
R-67BC	26R71	R-107B	24R55	R-133A	26R115	S-20Z	22S20	S-55X	24S14 #
R-68A	24R66	R-108A	24R09U	R-134A	26R127	S-21A	22S55	S-55Z	26S46
R-69BC	26R77	R-108B	24R09	R-135BC	26R120	S-21Z	22S57	S-56Z	22S79
R-70A	22R45	R-109A	24R21U	R-136BC	26R132	S-22A	22S70	S-57Z	24S14 #
R-71A	22R60	R-109B	24R21	R-137HA	26R130	S-23X	22S100	S-59Z	22S89
R-72A	24R45	R-110A	24R80	R-138A	26R110	S-24A	22S66	S-60A	24S57
R-73B	24R74	R-110B	24R81	R-139A	26R118	S-25Z	24S73	S-61Z	24S55 #
R-74BC	26R78	R-111A	24R40U	R-675A	26R102	S-26X	22S101	S-62X	22S61
R-75BA	26R122	R-111B	24R40	S-1X	22S45	S-27A	22S15	S-63X	24S04 #
R-76BC	26R94 ##	R-112A	24R56	S-2X	24S50	S-28X	22S16	S-64X	22S47 ¢
R-77BC	26R79	R-112B	24R57	S-3X	24S51	S-29X	22S17	S-65X	22S103
R-77BS	26R80	R-113A	24R01U	S-4X	22S38	S-30X	22S45	S-66X	22S102
R-78BC	26R99	R-113B	24R01	S-5X	22S35	S-31A	22S01	S-67X	26S50
R-79BA	26R107	R-114A	24R05U	S-5Z	26S49 †	S-32A	22S02	S-68Z	22S52
R-80BA/BC	26R121	R-114B	24R05	S-6X	24S48	S-34X	22S21	S-69Z	22S54
R-81BC	26R100	R-115A	24R58	S-6Z	22S24	S-35A	22S04	S-70Z	24S100
R-81BS	26R101	R-115B	24R59	S-7X	24S52	S-36A	22S05	S-71Z	24S102
R-83A	24R78	R-116A	24R60	S-8X	24S82	S-37X	22S19	S-72Z	24S107
R-84K	25F19	R-116B	24R61	S-8Z	24S81	S-38X	22S27	S-73X	24S74 ‡‡‡
R-85A	24R79	R-118A	24R62	S-9X	26S48	S-38Z	22S28	SR-74K	24S104
R-86BA	26R108	R-118B	24R63	S-9Z	26S48	S-39X	22S50	S-75K	24S106
R-87BC	26R116	R-120A	24R64	S-10X	22S37	S-40X	22S18	S-76Z	22S104
R-88A	26R124	R-120B	24R65	S-11X	24S83	S-41X	22S31	S-77U	22S105
R-89BC	26R128	R-121A	24R07U	S-11Z	24S84	S-41Z	22S32	S-78Z	24S101
R-90BC	26R126	R-121B	24R07	S-12X	24S53 ¢	S-42A	22S11	S-79Z	24S105
R-91HA	26R129	R-122A	26R123	S-12Z	26S58	SR-45Z	24S103	S-129Z	24S113
R-92A	26R109	R-123HA	26R105	S-13X	22S29	S-46A	24S108	S-130Z	24S112
R-93A	22R21	R-124BC	26R106	S-13Z	22S30	S-47Z	24S71	S-131X	24S109
R-94H	22R03	R-125BC	26R113	S-14Z	22S23	S-48X	22S25	S-132X	24S110

¢ Minor electrical difference exists between the Triad and T-M units. See your T-M catalog for complete specifications.

Universal Output Transformer - The impedance range of these transformers differ slightly. See your T-M catalog for complete specifications.

★ The Triad R-61BC high voltage winding is rated at 280-0-280 Volts, while the 26R88 high voltage winding is rated at 265-0-265 Volts. All other ratings are directly interchangeable.

The Triad R-76BC is rated at 6.3 Volts @ 8 Amps, while the 26R94 is rated at 6.3 Volts @ 5 Amps. All other ratings are directly interchangeable.

† The Triad unit is mounted by means of a vertical channel frame, while the otherwise identical T-M unit is mounted with a horizontal channel frame.

δ 24S19 has additional 8 and 16 Ohm output taps. Not available with the Triad S-19Z.

δδ 24S56 has additional 2 and 8 Ohm output taps. Not available with the Triad S-15X.

‡‡‡ S-73X has 16 Ohm tap.

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Cross Reference

TRIAD to THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M	PART NUMBER TRIAD	T-M
S-133Z	24S111	SP-64	27S108	TY-27XT	TR-233	TY-66A	TR-198	TZ-29XT	TR-230
S-142A	22S03	SP-65	27S109	TY-28XT	TR-232	TY-67A	TR-199	TZ-32XT	TR-231
S-144A	22S06	SP-66	27S110	TY-29X	TR-191	TY-68S	TR-78	TZ-103XT	MI-T152
S-146A	22S07	SP-67	27S111	TY-30X	TR-193	TY-69S	TR-83	WLC-3	WC-13
S-148A	22S08	SP-106	27C79	TY-31X	TR-192	TY-70S	TR-85	WLC-4	WC-11
S-149A	22S10	SP-107	27C80	TY-32X	TR-246	TY-71S	TR-87	WLC-5	WC-22
S-152A	22S12	SP-108	27C81	TY-33X	TR-113	TY-74S	TR-95	WLC-6	WC-18
S-154A	22S13	SP-117	27C82	TY-34X	TR-247	TY-75A	TR-71 ▲	WLC-7	WC-17
S-156A	22S09	SP-118	27C83	TY-35X	TR-248	TY-76A	TR-70 ▲	WLC-8	WC-24
S-158A	22S14	SP-128	27C84	TY-36X	TR-249	TY-78	TR-269	WLC-8A	WC-21
SP-4	27A107	T-1X	MI-T153	TY-37X	TR-250	TY-79	TR-270	WLC-9	WC-27
SP-5	27A108	T-2X	MI-T154	TY-38X	TR-251	TY-80	TR-271	WLC-11	WC-32
SP-7	27A109	T-3X	MI-T155	TY-39X	TR-252	TY-81	TR-272	WLC-17	WC-33
SP-11	27A110	T-5X	MI-T156	TY-40X	TR-253	TY-82	TR-273	WLC-23	WC-23
SP-13	27A111	T-11X	MI-T157	TY-41X	TR-254	TY-83	TR-274	WLC-26	WC-30
SP-15	27A112	T-12X	MI-T158	TY-42X	TR-255	TY-84	TR-275	WLC-29	WC-26
SP-20	27D37	T-13X	MI-T159	TY-43X	TR-256	TY-88	TR-276	Y-12	Y-5 §
SP-21	27D38	T-14X	MI-T160	TY-44X	TR-116	TY-89	TR-277	Y-12-1	Y-5
SP-29	27D39	T-15X	MI-T161	TY-45X	TR-114	TY-90	TR-278	Y-12-3	Y-5 §
SP-32	27S88	T-20X	MI-T162	TY-46X	TR-257	TY-91	TR-279	Y-17	Y-7 §
SP-33	27S89	T-21X	MI-T94	TY-47X	TR-258	TY-92	TR-280	Y-17-1	Y-7 §
SP-34	27S90	T-22X	MI-T163	TY-48X	TR-111	TY-93	TR-281	Y-17-3	Y-7 §
SP-35	27S91	T-23X	MI-T164	TY-49X	TR-259	TY-94	TR-282	Y-19	Y-10 §
SP-36	27S92	T-24X	TR-235	TY-50X	TR-24 ¢	TY-99	TR-283	Y-19-1	Y-10 §
SP-42	27S93	T-25X	MI-T165	TY-51X	TR-260	TY-100	TR-284	Y-19-3	Y-10 §
SP-43	27S94	T-26X	TR-236	TY-52X	TR-261	TY-101	TR-285	Y-20	Y-13 §
SP-44	27S95	T-31X	MI-T166	TY-53X	TR-194	TY-102	TR-286	Y-20-2	Y-13 §
SP-46	27S96	T-32X	TR-237	TY-54X	TR-262	TY-462	TR-288	Y-20-3	Y-17
SP-47	27S97	T-33X	MI-T167	TY-55X	TR-263	TY-468	TR-287	Y-21	Y-6 §
SP-48	27S98	T-34X	TR-240	TY-56X	TR-264	TZ-1	MI-T147	Y-21-1	Y-6
SP-49	27S99	T-35X	TR-241	TY-57X	TR-265	TZ-2XT	MI-T148	Y-21-3	Y-6 §
SP-50	27S100	T-41X	TR-238	TY-58X	TR-21 ¢	TZ-5	MI-T149	Y-22	Y-9 §
SP-51	27S101	T-42X	TR-239	TY-59X	TR-266	TZ-7	TR-226	Y-22-1	Y-9 §
SP-52	27S102	T-101X	MI-T100	TY-60X	TR-267	TZ-13	MI-T150	Y-22-3	Y-9 §
SP-59	27S103	T-102X	MI-T168	TY-61X	TR-195	TZ-15	TR-227	Y-24	Y-12 §
SP-60	27S104	TY-23X	TR-242	TY-62X	TR-268	TZ-17XT	TR-229	Y-24-3	Y-12 §
SP-61	27S105	TY-24X	TR-243	TY-63X	TR-196	TZ-24XT	TR-228	Y-25	Y-4 §
SP-62	27S106	TY-25X	TR-244	TY-64X	TR-58	TZ-25	MI-T151	Y-25-1	Y-4
SP-63	27S107	TY-26X	TR-245	TY-65Z	TR-197	TZ-26	TR-234	Y-25-3	Y-4 §

¢ Minor electrical difference exists between the Triad and T-M units. See your T-M catalog for complete specifications.

▲ Transistor Power Supply Transformers - Voltage and Power output ratings are approximately the same, however, circuit details may be different.

§ T-M yokes are furnished complete with Anti-Ringing Networks factory installed. In most applications Triad yokes require the installation of separately available Anti-Ringing components.

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Cross Reference

TRIAD
to
THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M	PART NUMBER TRIAD	PART NUMBER T-M
Y-26-2	Y-24	Y-42-2	Y-21	Y-47	Y-50	Y-60	Y-48 §	Y-66-1	Y-46
Y-28	Y-11	Y-43	Y-16 §	Y-48	Y-44	Y-60-1	Y-52 §	Y-70-1	Y-51 §
Y-40	Y-14 §	Y-43-1	Y-16 §	Y-49	Y-50 §	Y-60-2	Y-47 §	Y-72-1	Y-59
Y-40-3	Y-14 §	Y-45-2	Y-45	Y-49-1	Y-50	Y-62	Y-62	Y-81-3	Y-47 §
Y-41	Y-16 §	Y-46	Y-15 §	Y-50	Y-14 §	Y-62-1	Y-62	Y-82-1	Y-39
Y-41-3	Y-16 §	Y-46-3	Y-15 §	Y-50-3	Y-14 §	Y-64-1	Y-58	Y-83-1	Y-55 §

§ T-M yokes are furnished complete with Anti-Ringing Networks factory installed. In most applications Triad yokes require the installation of separately available Anti-Ringing components.

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Cross Reference

UNITED TRANSFORMER CORP. (UTC)
to
THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER UTC	T-M	PART NUMBER UTC	T-M	PART NUMBER UTC	T-M	PART NUMBER UTC	T-M	PART NUMBER UTC	T-M
A-10	25A58	CG-32	25F77	CG-300W	25P92	DO-T9	MI-T209	DO-T46	MI-T246
A-11	25A59	CG-33	25F78	CG-301	25P66	DO-T10	MI-T210	DO-T47	MI-T247
A-12	25A18 *	CG-34	25F79	CG-301W	25P93	DO-T11	MI-T211	DO-T48	MI-T248
A-15	25A64	CG-40	25C61	CG-302	25P67	DO-T12	MI-T212	DO-T49	MI-T249
A-16	25A20	CG-44	25C62	CG-302W	25P94	DO-T13	MI-T213	DO-T50	MI-T250
A-17	25A65	CG-45	25C63	CG-303	25P68	DO-T14	MI-T214	DO-T500	MI-T200
A-18	25A21	CG-48C	25C64	CG-303W	25P95	DO-T15	MI-T215	FHA-15	27A28
A-19	25A66	CG-51AX	25D59	CG-315	25R50	DO-T16	MI-T216	FHA-25	27A35
A-20	25A22 *	CG-53AX	25D60	CG-316	25R51	DO-T17	MI-T217	FHI-3	27C39
A-21	25A60	CG-59AX	25D61	CG-333	25A94	DO-T18	MI-T218	FHI-7	27C40
A-22	25S10	CG-100	25C65	CG-422	25R46	DO-T19	MI-T219	FHI-11	27C41
A-23	25S11	CG-101	25C69	CG-428	25R47	DO-T20	MI-T220	FT-1	21F120
A-24	25S12	CG-102	25C66	CG-429	25R48	DO-T21	MI-T221	FT-2	21F09
A-25	25S13	CG-103	25C70	CG-433	25A95	DO-T22	MI-T222	FT-3	21F92
A-26	25S33 *	CG-104	25C67	CG-710	25S48	DO-T23	MI-T223	FT-4	21F10
A-27	25A61	CG-105	25C71	CVA-1	25V01	DO-T24	MI-T224	FT-5	21F93
A-28	25S14	CG-108	25C68	CVA-2	25V02	DO-T25	MI-T225	FT-6	21F94 *
A-30	25C06	CG-109	25C72	CVA-3	25V03	DO-T26	MI-T226	FT-7	21F95
A-32	25C07	CG-111	25C73	CVA-4	25V04	DO-T27	MI-T227	FT-8	21F96
A-34	25A67	CG-120	25F80	CVA-5	25V05	DO-T28	MI-T228	FT-10	21F97
A-35	25A68	CG-121	25F81	CVL-1	25S57	DO-T29	MI-T229	FT-11	21F98
A-36	25A69	CG-122	25F82	CVL-2	25S58	DO-T30	MI-T230	FT-12	21F99
A-37	25A70	CG-124	25F83	CVL-3	25S59	DO-T31	MI-T231	FT-13	21F100
A-38	25A71	CG-125	25F84	CVP-1	25S52	DO-T32	MI-T232	FT-14	21F101
A-39	25A62	CG-126	25F85	CVP-2	25S53	DO-T33	MI-T233	H-1	27A20
A-40	25F26	CG-131	25A85	CVP-3	25S54	DO-T34	MI-T234	H-2	27A36
A-41	25C08	CG-132	25A86	DI-T9	MI-T251	DO-T35	MI-T235	H-3	27A23
A-42	25C09	CG-133	25A87	DI-T22	MI-T252	DO-T36	MI-T236	H-4	27A24 **
A-43	25A63	CG-134	25A88	DI-T23	MI-T253	DO-T37	MI-T237	H-5	27A25
CG-2L6	25S49	CG-135	25A89	DO-T1	MI-T201	DO-T38	MI-T238	H-6	27A26
CG-15	25S45	CG-136	25A91	DO-T2	MI-T202	DO-T39	MI-T239	H-7	27S31
CG-16	25S46	CG-137	25A92	DO-T3	MI-T203	DO-T40	MI-T240	H-8	27A37
CG-19	25S47	CG-140	25S21	DO-T4	MI-T204	DO-T41	MI-T241	H-9	27A32
CG-20	25S50	CG-141	25S22	DO-T5	MI-T205	DO-T42	MI-T242	H-10	27A30
CG-21	25S51	CG-233	25A93	DO-T6	MI-T206	DO-T43	MI-T243	H-11	27C37
CG-30	25V06	CG-235	25A90	DO-T7	MI-T207	DO-T44	MI-T244	H-12	27A21
CG-31	25V07	CG-300	25P65	DO-T8	MI-T208	DO-T45	MI-T245	H-13	27A33

* Mounting dimensions for the UTC unit are not the same as the T-M unit. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

** The 27A24 and the H-4 are identical units except the 27A24 has a secondary center tap.

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Cross Reference

UNITED TRANSFORMER CORP. (UTC)
to
THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER UTC	T-M	PART NUMBER UTC	T-M	PART NUMBER UTC	T-M	PART NUMBER UTC	T-M	PART NUMBER UTC	T-M
H-14	27A34	H-82	27R03	H-123	27F64	H-219	27A40	N-583A	27F36
H-15	27S35	H-83	27R04	H-124	27F65	H-220	27A41	N-584A	27F37
H-16	27S36	H-84	27R05	H-125	27F66	H-221	27A42	N-585A	27F38
H-17	27A38	H-85	27R06	H-126	27F67	H-222	27C42	N-586A	27F39
H-18	27A39	H-86	27R07	H-127	27F68	H-224	27C43	N-587A	27F40
H-19A	27A43	H-87	27R08	H-128	27F69	H-280	27D36	N-588A	27F41
H-20	27A44	H-89	27R09	H-129	27F70	H-281	27S29	N-589A	27F42
H-21	27A45	H-91	27R10	H-130	27F72	H-282	27S30	N-590A	27F43
H-22	27S24	H-92	27R11	H-131	27F73	H-283	27A48	N-591A	27F44
H-23	27S25	H-93	27R12	H-132	27F74	H-284	27C45	N-592A	27F45
H-24	27C44	H-94	27V63	H-133	27F75	H-286	27C46	N-593A	27R86
H-25	27A46	H-95	27V64	H-134	27F76	H-300	27C62	N-594A	27R87
H-26	27A47	H-96	27V65	H-135	27F77	H-915	27V60	N-595A	27R88
H-27	27S26	H-97	27R20	H-136	27F78	H-925	27V61	N-596A	27R89
H-30	27A16	H-98	27R21	H-137	27F79	H-935	27V62	N-597A	27R90
H-31	27S18	H-99	27R22	H-138	27F80	H-965	27V66	N-598A	27R91
H-32	27S19	H-100	27R23	H-139	27F81	HA-100	25A72	N-599A	27R92
H-33	27S20	H-101	27F83	H-140	27F82	HA-100X	25A73	N-600A	27R93
H-35	27C38	H-102	27F84	H-141	27V67	HA-101	25A74	O-1	25A27
H-36	27A17	H-103	27F85	H-142	27V68	HA-101X	25A75	O-2	25A28
H-37A	27S21	H-104	27F86	H-143	27V69	HA-103A	25A76	O-3	25A29
H-38	27A18	H-108	27C60	H-144	27V70	HA-104	25A80	O-4	25A35
H-39	27A19	H-109	27C61	H-145	27V71	HA-105	25A81	O-5	25A36
H-40A	27S22	H-110	27P30	H-146	27V72	HA-106	25A82	O-6	25A37
H-41A	27S23	H-110W	27P31	H-147	27V73	HA-107	25A83	O-7	25A38
H-42A	27A27	H-111	27P32	H-164	27C53	HA-108	25A77	O-8	25S01
H-70	27C47	H-111W	27P33	H-166	27C54	HA-108X	25A78	O-9	25S02
H-71	27C32	H-112	27P34	H-168	27C55	HA-113	25S15	O-10	25S03
H-72	27C48	H-112W	27P35	H-170	27C56	HA-114	25S16	O-11	25A30
H-73	27C19	H-113	27P36	H-171	27C57	HA-130X	25A79	O-12	25A31
H-74	27C21	H-114	27P37	H-172	27C58	HA-133	25S17	O-13	25C01
H-75	27C49	H-115	27P38	H-173	27C59	HA-134	25S18	O-14	25A32
H-76	27C50	H-118	27F87	H-194	27R13	HA-135	25S19	O-15	25A39
H-77	27C51	H-119	27F71	H-195	27R14	HA-136	25S20	O-16	25A33
H-78	27C52	H-120	27F88	H-196	27R15	HA-137	25A84	O-18	25A40
H-80	27R01	H-121	27F89	H-197	27R16	HP-122	25R44	O-19	25A41
H-81	27R02	H-122	27F63	H-198	27R17	HP-123	25R45	O-20	25S04

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Cross Reference

UNITED TRANSFORMER CORP. (UTC) to THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER UTC	PART NUMBER T-M	PART NUMBER UTC	PART NUMBER T-M	PART NUMBER UTC	PART NUMBER T-M	PART NUMBER UTC	PART NUMBER T-M	PART NUMBER UTC	PART NUMBER T-M
O-21	25S05	R-18	20C48	R-220	20C40	SSO-10	TR-203	Z-848	27C01
O-22	25S06	R-19	20C38	SC-3	23V40	SSO-11	TR-204	Z-849	27C02
O-23	25C02	R-20	20C49##	SC-4	23V41	SSO-12	TR-205	Z-850	27C03
O-24	25C03	R-21	20C39	SC-5	23V42	SSO-13	TR-206	Z-851	27C04
O-25	25A34	R-41	23V81	SML-70	27A69	SSO-14	TR-207	Z-852	27C05
O-26	25A42	R-42	23V82	SO-1	MI-T141	SSO-15	TR-208	Z-853	27C06
O-27	25A43	R-43	23V83	SO-2	MI-T142	SSO-16	TR-209	Z-854	27C07
O-28	25A44	R-44	23V72 *	SO-3	MI-T143	SSO-17	TR-210	Z-855	27C08
O-29	25A45	R-45	23V24	SO-4	MI-T144	SSO-18	TR-211	Z-856	27C09
O-30	25A46	R-46	23V84	SO-5	MI-T145	SSO-19	TR-212	Z-857	27C10
O-31	25A47	R-47	23V91	SO-6	MI-T146	SSO-20	TR-213		
O-32	25A48	R-48	23V92	SO-7	TR-218	SSO-21	TR-214		
O-33	25A49	R-49	23V93	SO-8	TR-219	SSO-22	TR-215		
O-34	25C04	R-55	20C47 ††	SO-9	TR-220	SSO-23	MI-T139		
O-36	25C05	R-64	23V85	SO-10	TR-221	SSO-24	MI-T140		
P-1	25A50	R-72	23V86	SO-11	TR-222	SSO-25	TR-216		
P-2	25A51	R-73	23V87	SO-12	TR-223	SSO-26	TR-217		
P-3	25A52	R-74	23V58	SO-13	TR-224	SSO-3P	27S37		
P-6	25A55	R-75	23V44	SO-14	TR-225	SSO-8P	27A53		
P-7	25A56	R-76	23V88	SO-2P	27A62	SSO-14P	27A55		
P-8	25S07	R-78	23V11 *	SO-3P	27S49	SSO-15P	27A56		
P-9	25S08	R-79	23V12 *	SO-7P	27A63	SSO-19P	27S47		
P-10	25S09	R-80	23V13 *	SO-8P	27A64	SSO-20P	27S48		
P-11	25A53	R-81	23V09 *	SO-9P	27S52	SSO-21P	27A57		
P-12	25A54	R-86	23V08	SO-14P	27A68	SSO-22P	27A58		
P-15	25A57	R-97	23V90	SO-CH	TR-352	SSO-CH	TR-353		
PF-1	22R47	R-101	22R01	SSO-1	MI-T67	W-783	27A01		
PF-3	22R48	R-102	24R41	SSO-2	MI-T70	W-784	27S01		
PF-5	25R56	R-103	24R04	SSO-3	MI-T73 ¢	W-785	27A02		
PF-6	25R57	R-104	24R05	SSO-4	MI-T76 ¢	W-786	27A03		
PF-7	25R58	R-105	24R42	SSO-5	MI-T82	W-787	27S02		
R-14	20C35	R-110	24R43	SSO-6	MI-T79 ¢	W-788	27S03		
R-15	20C45 †	R-111	24R44	SSO-7	TR-200	W-789	27S04		
R-16	20C36	R-112	24R05U *	SSO-8	TR-201	W-790	27S05		
R-17	20C37	R-113	24R07U *	SSO-9	TR-202	W-791	27S06		

† The current rating for the UTC R-15 is 30 MADC, while the otherwise identical 20C45 is rated at 40 MADC.

The DC Resistance of the UTC R-20 is 90 Ohms. The DC Resistance of the 20C49 is 58 Ohms.

* Mounting dimensions for the UTC unit are not the same as the T-M unit. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

†† The UTC R-55 is rated at 6 H @ 40 MADC, while the 20C47 is rated at 4.5 H @ 50 MADC. The inductance of the 20C47 will be approximately 6 H at the 40 MADC level.

¢ Small electrical differences exist between the UTC and T-M units. See your T-M catalog for the complete specifications.

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Cross Reference

CHICAGO - STANCOR Industrial Transformers to THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M
1BC-150	25R21	4RH-2300	27C110	BO-1	25S23 *	F-4	25F89	FMS-1	27F94
1BH-150	27R60	4RMS-240	27C100	BO-2	25S24 *	F-5	25F90	FMS-2	27F95
1BS-150	25R42	4RMS-255	27C26	BO-5	25S25 *	F-6	25F91	FMS-3	27F96
2BC-150	25R22	4RMS-270	27C101	BO-6	25S26 *	F-7	25F92	FMS-4	27F97
2BS-150	25R43	4RMS-285	27C102	BO-9	25S27 *	F-8	25F93	FMS-5	27F98
4FH-63	27F105	4RMS-2105	27C103	BO-10	25S28 *	F-25	25F56	FMS-6	27F99
4FH-65	27F106	4RMS-2120	27C28	BO-11	25S29 *	F-54	25F60	FMS-7	27F100
4FH-610	27F107	4RMS-2150	27C104	BO-12	25S30 *	F-58	25F61	FMS-8	27F101
4FH-620	27F108	4RMS-2165	27C29	BO-13	25S31 *	F-63	25F68	FMS-23	27F36
4FMS-63	27F102	4RMS-2200	27C30	BO-14	25S75	F-65	25F69	FMS-53	27F38
4FMS-65	27F60	4RMS-2300	27C31	BO-15	25S76	F-75	25F71	FMS-62	27F40
4FMS-122	27F104	4RMS-3120	27C73	BOH-1	27S117	F-104	25F73	FMS-65	27F41
4FMS-610	27F61	AMS-1	27A01	BOH-2	27S118	F-106	25F74	FMS-210	27F37
4FMS-620	27F62	AMS-2	27S01	BOH-4	27S119	F-210	25F57	FMS-210H	27F44
4FMS-1208	27F103	AMS-3	27A02	BOH-5	27S120	F-210H	25F58	FMS-510	27F39
4FMS-2415	27F16	AMS-4	27A03	BOH-9	27S121	F-215H	25F59	FMS-510H	27F45
4IMS-40	27V54	AMS-5	27S02	BR-1	25C40	F-510H	25F62	FMS-610	27F42
4IMS-160	27V56	AMS-6	27S03	CDC-1	25D52	F-516	25F63	FMS-620	27F43
4PHC-55	27R114	AMS-7	27S04	CDS-1	25D58	F-520HB	25F64	HF-20	25A08
4PHC-70	27R115	AMS-8	27S05	CDH-1	27D35	F-530	25F65	HF-20X	25A09
4PHC-120	27R116	AMS-9	27S06	CIC-1	25A23	F-530BX	25F66	HF-22	25A10
4PHC-165	27R117	BD-1	25D53	CIC-2	25A24	F-610	25F70	HF-22X	25A11
4PHC-200A	27R118	BD-2	25D54	CIH-1	27A126	F-615	25F67	HF-29	25A11
4PHR-300	27R119	BI-1	25A01 *	CIH-2	27A127	F-712	25F72	HF-31	25A13
4PMS-40	27R106	BI-2	25A02 *	CIS-1	25A25	F-725	25F18	HF-32	25A14
4PMS-55	27R107	BI-3	25A03 *	CIS-2	25A26	F-1010	25F75	HF-40	25A15
4PMS-70	27R108	BI-4	25A04 *	CMS-1	25M76	FH-25	27F24	HP3-140	27V18
4PMS-85	27R109	BI-5	25A05 *	CMS-3	25M77	FH-54	27F28	HRP-400	27R100
4PMS-105	27R110	BI-6	25A06 *	COC-1	25S38	FH-58	27F29	HRP-600	27R101
4PMS-120	27R96	BI-7	25A07 *	COC-2	25S39	FH-63	27F90	HRP-800	27R102
4PMS-150	27R111	BIH-1	27A120	COH-1	27S122	FH-65	27F91	HRP-1600	27R103
4PMS-165	27R112	BIH-4	27A121	COH-2	27S123	FH-104	27F93	HRP-2000	27R104
4PMS-200A	27R113	BIH-6	27A122	COS-1	25S43	FH-210	27F25	HRP-2500	27R105
4PMS-300	27R99	BIH-7	27A123	COS-2	25S44	FH-210H	27F26	IS-50	25V16
4RH-255	27C105	BIH-8	27A124	DCT-1	TR-82 Δ	FH-215H	27F27	IS-100	25V17
4RH-270	27C106	BIH-10	27A125	DCT-2	TR-92 Δ	FH-510H	27F30	IS-150	25V18
4RH-2120	27C107	BM-1	25M78	F-1	25F86	FH-520HB	27F31	IS-250	25V19
4RH-2165	27C108	BM-2	25M80	F-2	25F87	FH-610	27F92	LPF-1	20C73 ‡
4RH-2200	27C109	BM-4	25M79	F-3	25F88	FH-615	27F32	NSI-1	25C38

‡ Electrical and Mechanical differences exist between these units. See your T-M catalog for complete specifications.

* Mounting dimensions for the Chicago unit are not the same as the T-M unit. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

Δ Transistor Power Supply Transformers - Voltage and Power output ratings are the same; however, circuit details may differ slightly.

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Cross Reference

CHICAGO - STANCOR Industrial Transformers to THORDARSON MEISSNER (T-M)

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PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M
NSI-2	25C39	PCT-30	27D37	PHR-120	27R54	R-67	25C44	RS-1555	25C51
P-45	25P82	PCT-31	27D38	PHR-150	27R55	R-103	25C47	RS-1585	25C53
P-67	25P83	PCT-39	27D39	PHR-200	27R56	R-105	25C45	RS-8105	25C54
P-107	25P84	PCT-43	27S89	PHR-300	27R57	RC-1055	25C26	RS-8150	25C56
P-1240	25P85	PCT-54	27S95	PMS-70	27R86	RC-1085	25C28	RS-8200	25C58
P-1512	25P86	PCT-60	27S100	PMS-70A	27R87	RC-1540	25C25	RS-8250	25C60
P-2126	25P88	PCT-61	27S101	PMS-150	27R88	RC-1555	25C27	RS-8300	25C43
P-2520	25P87	PCT-62	27S102	PMS-175	27R89	RC-1585	25C29	RS-12105	25C55
P-3025	25P89	PCT-70	27S104	PMS-250	27R90	RC-8105	25C30	RS-12150	25C57
P-4353	25P90	PCT-71	27S105	PMS-350	27R91	RC-8150	25C32	RS-12200	25C59
PCC-40	25R01	PCT-76	27S110	PMS-550	27R92	RC-8200	25C34	SD-50	25V10
PCC-55	25R02	PCT-77	27S111	PMS-800	27R93	RC-8250	25C36	SD-100	25V11
PCC-60	25R03	PCT-116	27C79	PSC-40	25R23	RC-8300	25C37	SD-150	25V12
PCC-70	25R04	PCT-117	27C80	PSC-55	25R24	RC-12105	25C31	SD-250	25V13
PCC-85	25R05	PCT-118	27C81	PSC-60	25R26	RC-12150	25C33	SD-500	25V14
PCC-105	25R06	PCT-128	27C83	PSC-70	25R27	RC-12200	25C35	SD-1000	25V15
PCC-120	25R08	PHC-10	27R38	PSC-85	25R28	RH-1055	27C88	SR-300	20C60 ‡
PCC-150	25R09	PHC-20	27R39	PSC-105	25R29	RH-1085	27C90	SR-500	20C61 ‡
PCC-200	25R10	PHC-40	27R40	PSC-120	25R31	RH-1510	27C85	TAMS-1	27A113
PCC-250	25R11	PHC-55	27R41	PSC-150	25R32	RH-1520	27C86	TAMS-2	27A114
PCD-10	25D49	PHC-60	27R42	PSC-165	25R14	RH-1540	27C87	TAMS-3	27A115
PCD-25	25D50	PHC-70	27R43	PSC-200	25R33	RH-1555	27C89	TAMS-4	27A116
PCD-100	25D51	PHC-85	27R44	PSC-205	25R15	RH-1585	27C91	TAMS-5	27A117
PCO-80	25S35	PHC-105	27R45	PSC-250	25R34	RH-8105	27C92	TAMS-6	27A118
PCO-150	25S36	PHC-120	27R46	PSD-10	25D55	RH-8150	27C94	TAMS-7	27A119
PCO-200	25S37	PHC-150	27R47	PSD-25	25D56	RH-8200	27C96	TAMS-8	27S112
PCR-55	25R07	PHC-165	27R58	PSD-100	25D57	RH-8250	27C98	TAMS-9	27S113
PCR-70	25R12	PHC-200	27R48	PSO-80	25S40	RH-8300	27C99	TAMS-10	27S114
PCR-85	25R13	PHC-200A	27R59	PSO-150	25S41	RH-12105	27C93	TAMS-11	27S115
PCR-105	25R16	PHC-250	27R49	PSO-200	25S42	RH-12150	27C95	TAMS-12	27S116
PCR-120	25R17	PHD-10	27D30	PSR-55	25R30	RH-12200	27C97	TM-1A	TOR-748
PCR-150	25R18	PHD-25	27D31	PSR-70	25R35	RP-400	24R100	TM-2A	TOR-749
PCR-200	25R19	PHD-100	27D34 §	PSR-85	25R36	RP-600	24R101	TM-5A	TOR-752
PCR-300	25R20	PHO-80	27S12 §§	PSR-105	25R37	RP-800	24R102	TM-8A	TOR-754
PCT-14	27A107	PHO-150	27S13	PSR-120	25R38	RP-1600	24R103	TM-10A	TOR-755
PCT-15	27A108	PHO-200	27S14	PSR-150	25R39	RP-2000	24R104	TM-20A	TOR-757
PCT-17	27A109	PHR-55	27R50	PSR-200	25R40	RP-2500	24R105	TM-50A	TOR-761
PCT-21	27A110	PHR-70	27R51	PSR-300	25R41	RS-1055	25C50	TM-80A	TOR-763
PCT-23	27A111	PHR-85	27R52	R-63	25C48	RS-1085	25C52	TM-100A	TOR-764
PCT-25	27A112	PHR-105	27R53	R-65	25C46	RS-1540	25C49	TM-200A	TOR-766

§ The PHD-100 unit is in an MIL-YY case while the 27D34 is in an MIL-FA case.

§§ The PHO-80 unit is in an MIL-YY case while the 27S12 is in an MIL-JA case.

‡ Electrical and Mechanical differences exist between these units. See your T-M catalog for complete specifications.

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Cross Reference

CHICAGO - STANCOR Industrial Transformers to THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M	PART NUMBER CHICAGO	T-M
TM-500A	TOR-770	UME-13	TR-131	UME-22	TR-129	UME-31	TR-123	WF-20	25A16
TM-800A	TOR-773	UME-14	TR-141	UME-23	TR-136	UME-32	TR-124	WF-21	25A17
TM-1000A	TOR-774	UME-15	TR-144	UME-24	TR-137	UME-33	TR-135	WF-22	25A18
TT-11	25A117	UME-16	TR-146	UME-25	TR-138	UME-34	TR-143	WF-24	25A19
TT-12	25A118	UME-17	TR-142	UME-26	TR-139	UME-35	TR-130	WF-26	25A20
TT-13	25A119	UME-18	TR-148	UME-27	TR-140	UME-36	TR-149	WF-28	25A21
TT-14	25A120	UME-19	TR-133	UME-28	TR-145	UME-37	TR-147	WF-30	25A22
UME-11	TR-134	UME-20	TR-127	UME-29	TR-122	UME-38	TR-150	WF-34	25S32
UME-12	TR-128	UME-21	TR-125	UME-30	TR-121	UME-39	TR-151	WF-35	25S34
								WF-36	25S33

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Cross Reference

STANCOR to THORDARSON MEISSNER (T-M)

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PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M
A-52C	20A16	A-3833	20A42	A-4431	24S116	A-8090	22S118	A-8134	FLY-6
A-53	20A45	A-3836	22S119	A-4432	24S122	A-8091	22S81	A-8135	FLY-21
A-53C	20A18	A-3837	24S76	A-4702	20D30	A-8092	26S49	A-8136	FLY-68
A-62C	20A49	A-3839	25S78	A-4703	20D81 *	A-8093	24S56 §	A-8137	FLY-24
A-63C	20A93	A-3841	22S77	A-4705	20A32	A-8094	22S21	A-8138	FLY-160
A-64C	20A48	A-3842	24S25	A-4706	20A33	A-8095	24S24	A-8139	FLY-89
A-73C	20A22	A-3845	21M67	A-4708	20A21	A-8096	24S21	A-8140	26S57
A-2203	24S115	A-3849	24S64	A-4709	25A123	A-8097	24S22	A-8141	26S54
A-2312	26S47	A-3850	24S08 #	A-4713	20D23	A-8098	24S117	A-8143	26S53
A-2313	24S96	A-3851	24S77	A-4719	25A122	A-8099	24S126	A-8144	26S73 Δ
A-2855	26S46 #	A-3852	24S12 #	A-4723	20D89	A-8101	24S75	A-8145	26S18
A-3250	24S27	A-3856	24S04	A-4742	20A36	A-8102	24S71	A-8146	26S11
A-3304	24S58	A-3857	24S59	A-4744	20A04 (m)	A-8103	24S72	A-8147	26S30
A-3307	24S119	A-3870	24S14 #	A-4745	20A17 *	A-8105	24S74	A-8149	26S23
A-3310	24S91	A-3871	21M63	A-4747	20A30	A-8109	24S01 (w)	A-8150	26S79
A-3311	22S64	A-3872	25S77	A-4748	20A35	A-8110	24A89	A-8151	26S74
A-3327	24S99	A-3876	24S50	A-4749	22S51	A-8111	24A87	A-8220	FLY-27
A-3328	24S48	A-3877	24S51	A-4752	20D31	A-8112	26S51	A-8221	FLY-11
A-3329	24S49	A-3878	24S52	A-4765	20D32	A-8113	26S77	A-8222	FLY-55
A-3330	24S85	A-3879	24S98	A-4770	22S116	A-8114	24S52	A-8223	FLY-119
A-3332	24S53	A-3881	24S54	A-4773	20A24 *	A-8115	24S86	A-8224	FLY-63
A-3335	24S19 (z)	A-3883	24S45	A-4774	20A19 (n)	A-8116	26S78	A-8225	FLY-62
A-3336	24S89	A-3885	24S121	A-4778	20A01	A-8119	FLY-4	A-8226	FLY-63
A-3337	24S92	A-3891	21M60A	A-4779	20A00	A-8120	24A90	A-8227	FLY-22
A-3496	22S48	A-3892	21M71	A-4780	20A11	A-8121	24A88	A-8228	FLY-22
A-3800	22S71	A-3893	21M61A	A-7947	24S46	A-8122	26A04	A-8229	FLY-23
A-3801	24S57	A-3894	21M72	A-7949	24S47	A-8123	26S52	A-8230	FLY-59
A-3802	24S79	A-3898	21M64	A-8050	22S106	A-8124	26A01	A-8231	FLY-58
A-3808	21M51	A-3899	21M65	A-8051	22S107	A-8125	26A03	A-8232	FLY-13
A-3812	21M59	A-4212	20D80 (a)	A-8052	22S41	A-8126	26A02	A-8233	FLY-24
A-3817	21M55	A-4292	20D21	A-8053	22S63	A-8127	FLY-1	A-8234	FLY-43
A-3818	24S00	A-4350	20A07	A-8054	22S69	A-8128	FLY-1	A-8235	FLY-45
A-3823	24S06	A-4351	25A121	A-8056	22S67	A-8129	FLY-151	A-8236	FLY-73
A-3825	24S63	A-4352	20A31	A-8072	22S65	A-8130	FLY-3	A-8237	FLY-158
A-3829	21M69	A-4407	20D20	A-8080	24S125	A-8131	FLY-2	A-8238	FLY-159
A-3830	24S55 #	A-4420	20A28	A-8081	24S124	A-8132	FLY-12M	A-8239	FLY-33
A-3831	24S56	A-4430	24S120	A-8082	24S123	A-8133	FLY-10	A-8240	FLY-56

Δ The Stancor A-8144 is rated at 9,500 Ohms @ 30 MADC while the 26S73 is rated at 11,000 Ohms @ 19 MADC. The impedance rating of the 26S73 will be approximately 9,500 at the 30 MADC level.

* Mounting dimensions for the Stancor unit are not the same as the T-M units. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

\# Universal output transformer - The impedance range of these transformers differ slightly. See your Thordarson-Meissner catalog for complete specifications.

§ The 24S56 has an additional 2 & 8 Ohm tap – not available in the Stancor A-8093.

(a) The 20D80 has an additional 2:1 Turns Ratio Tap.

(m) The 20A04 has an additional 6 Ohm Tap.

(n) The Stancor A-4774 has a split center tapped secondary while the 20A19 has a secondary center tap but it is not split. Stancor unit mounted in a vertical channel frame – T-M mounted in a horizontal channel frame but both units have the same mounting dimensions.

(w) The 24S01 has 2 additional voltage taps.

(z) The 24S19 has an additional 16 Ohm tap – not available in the Stancor A-3335.

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Cross Reference

STANCOR to THORDARSON MEISSNER (T-M)

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PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M
A-8241	FLY-25	A-8288	FLY-90	C-1703	20C98	C-2705	26C45	DY-42A	Y-46
A-8242	FLY-67	A-8289	FLY-102	C-1706	20C47	C-2706	20C19	DY-43A	Y-38
A-8243	FLY-66	A-8290	FLY-104	C-1707	20C84	C-2707	20C102	DY-44A	Y-53
A-8244	FLY-60	A-8291	FLY-152	C-1708	20C85	C-2708	26C81	DY-45A	Y-52
A-8245	FLY-92	A-8292	FLY-136	C-1709	20C48	DY-1A	Y-3	DY-48A	Y-27
A-8246	FLY-93	A-8293	FLY-26	C-1710	20C68	DY-2A	Y-6	DY-49A	Y-31
A-8247	FLY-113	A-8294	FLY-79	C-1718	20C75	DY-8A	Y-5	DY-50A	Y-32
A-8248	FLY-57	A-8295	FLY-248	C-1720	20C110	DY-9A	Y-7	FC-10	FC-1
A-8249	FLY-61	A-8296	FLY-97	C-1721	20C96	DY-10A	Y-13	FC-11	FC-3
A-8251	FLY-115	A-8297	FLY-36	C-1722	20C70	DY-11A	Y-10	FC-12	FC-2
A-8252	FLY-12	A-8298	FLY-27	C-1723	20C47	DY-12A	Y-12	HO-250	FLY-101
A-8253	FLY-78	A-8299	FLY-41	C-2301	20C63	DY-13A	Y-14	HO-251	FLY-80
A-8254	FLY-75	C-1001	26C85	C-2303	26C88	DY-14A	Y-17	HO-252	FLY-105
A-8255	FLY-76	C-1002	26C86	C-2304	26C89	DY-15A	Y-18	HO-253	FLY-94
A-8256	FLY-49	C-1003	26C87	C-2305	20C67	DY-16A	Y-16	HO-254	FLY-107
A-8257	FLY-49	C-1080	20C82	C-2307	20C79	DY-17A	Y-21	HO-255	FLY-54
A-8258	FLY-86	C-1215	20C66	C-2308	20C69	DY-18A	Y-19	HO-256	FLY-16
A-8259	FLY-87	C-1227	20C59 (p)	C-2309	20C64	DY-19A	Y-23	HO-258	FLY-153
A-8260	FLY-49	C-1277	20C59 (r)	C-2318	20C52	DY-20A	Y-22	HO-259	FLY-91
A-8261	FLY-49	C-1279	20C81	C-2325	26C94	DY-21A	Y-24	HO-260	FLY-37
A-8262	FLY-88	C-1325	26C42	C-2326	26C93	DY-23A	Y-25	HO-261	FLY-109
A-8263	FLY-25	C-1333	20C81	C-2327	26C41	DY-24A	Y-50	HO-262	FLY-47
A-8264	FLY-37	C-1400	20C76	C-2328	26C92	DY-25A	Y-49	HO-263	FLY-17
A-8265	FLY-24	C-1401	20C77	C-2332-1	20C74 ‡	DY-26A	Y-47	HO-264	FLY-130
A-8266	FLY-112	C-1402	20C78	C-2334	26C91	DY-27A	Y-48	HO-265	FLY-122
A-8267	FLY-52	C-1403	20C31	C-2335	25C92	DY-28A	Y-35	HO-266	FLY-149
A-8268	FLY-52	C-1404	20C33 *	C-2340	20C73 ‡	DY-29A	Y-36	HO-267	FLY-132
A-8269	FLY-53	C-1410	20C93	C-2343	26C77	DY-30A	Y-37	HO-268	FLY-133
A-8270	FLY-82	C-1411	20C94	C-2344	26C40	DY-31A	Y-45	HO-269	FLY-139
A-8271	FLY-83	C-1412	26C90	C-2345	20C50	DY-32A	Y-54	HO-271	FLY-118
A-8272	FLY-84	C-1413	20C106	C-2346	20C51	DY-33A	Y-40	HO-272	FLY-100
A-8273	FLY-110	C-1414	20C107	C-2685	20C00	DY-34A	Y-43	HO-273	FLY-169
A-8274	FLY-111	C-1415	25C46 (s)	C-2686	20C01	DY-35A	Y-57	HO-274	FLY-127
A-8275	FLY-114	C-1420	20C71	C-2687	20C02	DY-36A	Y-60	HO-275	FLY-8
A-8276	FLY-116	C-1421	20C54	C-2688	20C03	DY-37A	Y-61	HO-276	FLY-27
A-8277	FLY-117	C-1515	20C43	C-2689	20C100	DY-38A	Y-62	HO-277	FLY-30
A-8284	FLY-103	C-1645	20C108	C-2690	20C25	DY-39A	Y-39	HO-278	FLY-131
A-8285	FLY-134	C-1646	20C105	C-2691	20C26	DY-40A	Y-51	HO-280	FLY-123
A-8287	FLY-106	C-1702	20C109	C-2704	20C09	DY-41A	Y-42	HO-281	FLY-74

‡ Small Electrical and Mechanical differences exist between these units. See your Thordarson-Meissner catalog for complete specifications.

* Mounting dimensions for the Stancor unit are not the same as the T-M units. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

(p) The Stancor C-1227 has a DC Resistance of 350 Ohms while the 20C59 has a DC Resistance of 200 Ohms. All other ratings are directly interchangeable.

(r) The Stancor C-1277 is rated at 300 Ohms DC Resistance while the 20C59 has a DC Resistance of 200 Ohms.

(s) The Stancor C-1415 is rated at 75 Ohms and 7500 Volt test while the 25C46 is rated at 35 Ohms and 9000 Volt test. Mounting dimensions of the Stancor unit are not the same as the T-M unit.

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PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M
HO-282	FLY-162	HO-319	FLY-173	P-4064	22R77	P-6135	21F13	P-6431	21F119
HO-283	FLY-202	HO-320	FLY-148	P-4065	22R78	P-6137	21F65 *	P-6432	21F07
HO-284	FLY-7A	HO-321	FLY-150	P-4082	25F94	P-6138	21F62	P-6433	26F66
HO-285	FLY-204	HO-322	FLY-200	P-4083	21F102	P-6139	21F28	P-6454	21F103
HO-286	FLY-206	HO-323	FLY-154	P-4086	21F38	P-6141	23V24	P-6455	21F105
HO-287	FLY-24W	HO-324	FLY-155	P-4088	21F104	P-6143	24R25	P-6456	21F72
HO-288	FLY-144	HO-325	FLY-214	P-4089	21F42	P-6144	21F115	P-6457	21F111
HO-289	FLY-201	HO-326	FLY-157	P-4091	21F110	P-6146	24R108	P-6458	21F18
HO-290	FLY-100	HO-328	FLY-163	P-4096	21F47	P-6160	23V25	P-6459	24R109
HO-292	FLY-205	HO-329	FLY-164	P-4097	21F29	P-6161	23V126	P-6461	21F112
HO-293	FLY-121	HO-330	FLY-165	P-5000	21F04 (b)	P-6166	22R24 (f)	P-6462	21F108
HO-294	FLY-141	HO-331	FLY-246	P-5002	21F48	P-6298	23V28	P-6463	21F109
HO-295	FLY-142	HO-332	FLY-28	P-5008	21F117	P-6301	22R55	P-6464	21F74
HO-296	FLY-143	HO-333	FLY-156	P-5009	21F55	P-6302	21F39	P-6465	21F21
HO-297	FLY-146	HO-334	FLY-180	P-5014	21F107	P-6308	21F43	P-6466	21F10
HO-298	FLY-166	HO-335	FLY-179	P-5015	21F45	P-6309	21F25	P-6467	21F94
HO-299	FLY-145	HO-336	FLY-190	P-5016	21F61	P-6315	24R24	P-6468	21F33 *
HO-300	FLY-203	HO-337	FLY-126	P-5059	24R23	P-6333	21F118	P-6469	21F51
HO-301	FLY-136	HO-338	FLY-39	P-5062	23V81	P-6338	21F116	P-6470	22R25
HO-302	FLY-136	HO-339	FLY-95	P-5063	23V21	P-6348	24R88	P-6471	22R67
HO-303	FLY-170	HO-340	FLY-96	P-5064	23V22	P-6358	24R96	P-6472	22R73
HO-304	FLY-137	HO-343	FLY-188	P-5065	23V20	P-6371	25V20	P-6473	22R75
HO-305	FLY-120	HO-344	FLY-185	P-6001	22R13	P-6375	23V50	P-6474	22R76
HO-306	FLY-129	P-1834-3	21F30	P-6007	24R35	P-6376	23V51	P-6476	22R27
HO-307	FLY-253	P-3020	21F113	P-6008	24R95	P-6377	23V52	P-6477	22R57
HO-308	FLY-254	P-3024	21F32	P-6010	24R01 (c)	P-6378	23V53	P-6479	22R69
HO-309	FLY-141	P-3026	21F36 (v)	P-6011	24R02	P-6379	23V54	P-6481	22R69
HO-310	FLY-228	P-3060	21F58	P-6012	24R04	P-6383	23V128	P-6482	22R89
HO-311	FLY-231	P-3062	21F37	P-6013	24R05	P-6385	23V129	P-6484	22R75
HO-312	FLY-230	P-3064	21F59	P-6014	24R06	P-6387	23V130	P-6486	22R28
HO-313	FLY-231	P-4004	24R38	P-6119	22R02 (e)	P-6410	23V45	P-6487	22R23
HO-314	FLY-232	P-4019	21F41	P-6124	23V73	P-6415	23V19	P-6488	22R61
HO-315	FLY-207	P-4022	21F56	P-6125	23V27	P-6425	24R107	P-6489	22R52
HO-316	FLY-208	P-4026	21F34	P-6131	22R19	P-6428	21F88 *	P-6491	22R61
HO-317	FLY-172	P-4047	24R93	P-6133	21F31	P-6429	21F24 (t)	P-6492	21F33 *
HO-318	FLY-175	P-4063	22R18	P-6134	21F09	P-6430	21F87		

(b) The Stancor P-5000 is rated at 5 Volts CT @ 6 Amps while the 21F04 is rated at 5 Volts CT @ 8 Amps. Mounting dimensions of the Stancor unit are not the same as the T-M unit.

(c) The Stancor P-6010 is rated at 5 Volts @ 3 Amps while the 24R01 is rated at 5 Volts @ 2 Amps. All other ratings are directly interchangeable.

(f) The Stancor P-6166 is rated at 6.3 Volts @ 2.25 Amps while the 22R24 is rated at 6.3 Volts @ 4.7 Amps. Mounting dimensions are not the same as the T-M unit.

(e) The Stancor P-6119 is rated at 300-0-300 at 55 MADC while the 22R02 is rated at 300-0-300 at 70 MADC. All other ratings are directly interchangeable.

(t) The Stancor P-6429 has one of its four secondary windings center tapped, the 21F24 has no center tapped winding.

(v) The Stancor P-3026 has an additional low voltage primary tap.

* Mounting dimensions for the Stancor unit are not the same as the T-M units. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

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PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M	PART NUMBER STANCOR	T-M
P-6496	22R46 (g)	P-8178	22R40	P-8358	21F81	PM-8407	24R08	RTC-8617	HS-1
P-8028	21P79 *	P-8179	24R77	P-8359	22R94	PM-8408	24R02	RTC-8623	HS-5
P-8034	21P77	P-8181	26R60	P-8360	24R15	PM-8409	24R40	RTC-8628	WC-18
P-8035	21P96 *	P-8190	26F60	PA-8421	26R38	PM-8410	24R22	RTC-8629	WC-19
P-8040	21P51	P-8191	26F65	PC-8301	21P73	PM-8411	24R06	RTC-8630	HS-6
P-8041	21P52	P-8193	23V101	PC-8302	21P76	PM-8412	24R07	TA-1	TR-295
P-8042	21P53	P-8194	23V102	PC-8303	21P80	PM-8418	24R11	TA-2	TR-296
P-8130	26F67	P-8195	TR-294	PC-8304	21P84	PM-8419	24R12	TA-3	TR-257 †
P-8150	24R91 (d)	P-8196	23V122	PC-8305	21P86	PM-8420	26R31	TA-4	TR-259 †
P-8151	24R30	P-8331	26R138	PC-8401	24R00U	PM-8422	22R06	TA-5	TR-238 †
P-8154	26R84	P-8332	26R50	PC-8402	24R19U	PM-8423	22R04	TA-6	TR-260 †
P-8155	26R63	P-8333	26R137	PC-8403	24R09U	PS-8415	26R37	TA-7	TR-195 †
P-8156	26R73	P-8334	26R88 (x)	PC-8404	24R13U	PS-8416	22R39	TA-8	TR-299
P-8157	26R87	P-8335	26R136	PC-8405	24R20U	PSU-3000	23V46	TA-9	TR-116
P-8158	26R14	P-8336	26R13 (j)	PC-8406	24R01U	PT-8311	21P88	TA-10	TR-258
P-8159	26R68	P-8337	26R135	PC-8407	24R08U	PT-8312	21P90	TA-11	TR-196
P-8160	26R82	P-8338	26R93 (y)	PC-8408	24R02U	PT-8313	21P92	TA-12	TR-300
P-8161	26R67	P-8339	26R45	PC-8409	24R40U	PT-8314	21P94	TA-13	TR-301
P-8162	26R97	P-8340	26R57	PC-8410	24R22U	PT-8315	21P95	TA-14	25S81
P-8163	26R65	P-8341	26R54 *	PC-8411	24R06U	PV-6441	23V11	TA-15	TR-305
P-8164	26R71	P-8342	26R01 (h)	PC-8412	24R07U	PV-6442	23V12	TA-16	TR-306
P-8165	26R74	P-8343	26R141	PC-8413	24R03	PV-6443	23V13	TA-17	TR-307
P-8166	26R70	P-8345	26R21	PC-8414	24R27	PV-6444	23V14	TA-18	TR-34 ★
P-8167	26R72	P-8346	26R139	PC-8417	24R10	RT-201	23V60	TA-19	TR-12
P-8168	26R81	P-8347	26R140	PC-8418	24R11U	RT-202	23V61	TA-20	TR-101
P-8169	26R95	P-8348	26R133	PC-8419	24R12U	RT-204	23V62	TA-21	TR-102
P-8170	26R86	P-8349	26R134	PC-8420	26R31U	RT-206	23V63	TA-22	TR-11
P-8171	26R85	P-8350	26R69	PC-8422	24R87	RT-208	23V64	TA-23	TR-103
P-8172	26R44	P-8351	26R15	PM-8401	24R00	RT-408	23V65	TA-24	TR-26 ★
P-8173	24R89	P-8352	26R33 (k)	PM-8402	24R19	RT-2012	23V66	TA-25	TR-104
P-8174	24R90	P-8353	26R59	PM-8403	24R09	RT-4012	23V67	TA-26	TR-105
P-8175	24R21U	P-8355	26R51	PM-8404	24R13	RTC-8611	HS-2	TA-27	TR-106
P-8176	22R32	P-8356	26R51	PM-8405	24R20	RTC-8612	HS-3	TA-28	TR-4
P-8177	22R05U	P-8357	21F114	PM-8406	24R01	RTC-8613	HS-9	TA-29	TR-107

(d) The Stancor P-8150 is rated at 1550 Volts @ 1.5 MADC–case mounting, while the 24R91 is rated at 1800 Volts @ 4 MADC–GGV type mounting.

(g) The Stancor P-6496 is rated at 12.6 Volts CT @ 2 Amps while the 22R46 has 2 – 6.3 Volts @ 3 Amps Windings, which may be connected in Series for 12.6 Volts CT @ 3 Amps. The 22R46 also has a 6 Volt DC Primary Tap.

(h) The 26R01 has a 5 Volt Tap on the 6.3 Volt damper winding – not available with the Stancor P-8342.

(j) The Stancor P-8336 high voltage is rated at 117 Volts @ 280 MADC while the 26R13 high voltage is rated at 140 Volts tapped @ 117 Volts @ 300 MADC. All other ratings are directly interchangeable.

(k) The 26R33 has an additional high voltage tap and an additional 5 Volts @ 3 Amps winding.

(x) The Stancor P-8334 is rated 6.3 Volts @ 8.5 Amps while the 26R88 is rated at 6.3 Volts @ 6 Amps.

(y) The Stancor P-8338 is rated at 6.7 Volts @ 10 Amps while the 26R93 has two 6.3 Volt @ 6 Amp windings that may be connected in parallel to get 6.3 Volts @ 12 Amps. The 26R93 also has an additional 6.3 Volts @ 1 Amp winding.

* Mounting dimensions for the Stancor unit are not the same as the T-M units. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

† Transistor Transformers - Identical units except for the power ratings.

* Transistor Transformers – DC Resistance values are different, all other ratings directly interchangeable.

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PART NUMBER STANCOR	T-M
TA-30	TR-2
TA-31	TR-3
TA-32	TR-108
TA-33	TR-109
TA-34	TR-23★
TA-35	TR-7
TA-36	TR-6
TA-37	TR-19
TA-38	TR-5
TA-39	TR-111
TA-40	TR-112
TA-41	TR-113
TA-42	TR-114
TA-43	TR-115

PART NUMBER STANCOR	T-M
TA-44	TR-117
TA-45	TR-118
TA-46	TR-24
TA-47	TR-119
TA-48	TR-179
TA-50	TR-163
TA-51	TR-186
TA-52	TR-1
TA-53	TR-10
TA-54	TR-17
TA-55	TR-36
TA-56	TR-60
TA-57	TR-63
TA-58	TR-65

PART NUMBER STANCOR	T-M
TA-59	TR-66
TA-60	TR-67
TA-61	TR-303
TA-62	TR-304
TA-63	TR-261
TC-1	TR-153
TC-2	TR-154
TP-1	23V121
TP-2	23V116
TP-3	23V117
TP-4	23V118 (aa)
VBO-200	26A06
VBO-201	26A05
VO-100	26S13

PART NUMBER STANCOR	T-M
VO-101	26S14
VO-102	26S15
VO-103	26S19
VO-104	26S16
VO-105	26S17
VO-106	26S12
VO-107	26S20
VO-108	26S22
VO-109	26S75
VO-110	26S27 §§
VO-111	26S26
VO-112	26S72
VO-113	26S21
WC-1,A	WC-11

PART NUMBER STANCOR	T-M
WC-2,A	WC-33
WC-4,A	WC-15
WC-5,A	WC-13
WC-6,A	WC-17
WC-7,A	WC-23
WC-8,A	WC-22
WC-9,A	WC-27
WC-10,A	WC-20
WC-11	WC-28
WC-12	WC-29
WC-13	WC-24
WC-14,A	WC-30
WC-16,A	WC-31
WC-17	WC-30
WC-18,A	WC-14

(aa) The Stancor TP-4 is mounted with coil shields while the 23V118 is mounted with a channel frame.

§§ The Stancor VO-110 is rated with a 16:1 Turns Ratio while the 26S27 is rated with a 15:1 Turns Ratio.

★ Transistor Transformers – DC Resistance values are different, all other ratings directly interchangeable.

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Cross Reference

MERIT to THORDARSON MEISSNER (T-M)

All references are for interchangeable parts except as otherwise footnoted

PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M
A-2706	TR-20 *	A-2800	24S125 ¢	A-2850	26S09	A-2904	26S46	P-2941	21F60
A-2742	TR-243	A-2801	24S124 ¢	A-2851	26S10	A-2905	24S42	P-2942	21F20
A-2743	TR-191	A-2802	24S123 *	A-2852	26S13	A-2906	24S46	P-2943	21F33 (s)
A-2744	TR-242	A-2805	24S24 *	A-2853	26S22	A-2907	24S67	P-2944	21F09 §
A-2745	TR-58	A-2806	24S23 †	A-2857	26S29	A-2909	22S81 *	P-2945	21F10 §§
A-2747	TR-196	A-2810	24S46 (m)	P-2860	22R79	A-2910	20A45	P-2946	21F10
A-2749	TR-193	A-2811	24S67 (m)	P-2862	26R43 Δ	A-2911	20A46	P-2947	21F72 *
A-2751	TR-195	A-2812	22S82 *	P-2867	26R91 **	A-2912	20A96	P-2948	21F43 *
A-2753	TR-21 ¢	A-2815	26S75 *	P-2869	26R44	A-2914	20A18	P-2949	24R00
A-2755	TR-192	A-2820	26S70 ¢¢	P-2870	26R47 ΔΔ	A-2915	20A93	P-2950	24R01
A-2757	TR-265	A-2821	26S30	P-2872	26R47 *	A-2916	20A22	P-2951	24R17
A-2759	TR-248	A-2822	26S71	P-2873	26R48 (a)	A-2917	20A95	P-2952	24R04
A-2761	TR-114	A-2823	26S72	P-2874	26R49	A-2918	20A36 †	P-2953	24R05
A-2763	TR-116	A-2824	26S76 (p)	P-2875	26R83	A-2920	20D21	P-2954	24R06 *
A-2765	TR-263	A-2825	26S17	P-2876	26R88 (d)	A-2925	22S91	P-2955	24R07
A-2767	TR-258	A-2826	26S79	P-2877	26R70 (b)	A-2927	24S81	P-2957	24R02 ##
A-2769	TR-250	A-2827	26S74	P-2878	26R50 *	A-2928	24S50	P-2958	24R19 (r)
A-2771	TR-251	A-2828	26S15	P-2881	26R51 *	A-2929	20A33 *	P-2959	26F67
A-2773	TR-252	A-2829	26S14	P-2882	26R51 *	A-2930	24S51	P-2960	21F15
A-2775	TR-266	P-2830	26R88	P-2883	26R52	A-2931	24S52	P-2961	26F63 ■
A-2777	TR-253	P-2832	26R41	P-2884	26R45 *	A-2932	24S98	P-2962	21F51
A-2779	TR-268	P-2836	26R91	P-2885	26R53	A-2934	24S54	P-2963	21F52
A-2781	TR-264	P-2837	26R89 (f)	P-2887	26R54	A-2935	22S54 †	P-2964	21F21
A-2783	TR-262	P-2842	26R71 (c)	P-2893	24R09U	A-2936	24S56 (n)	P-2967	24R24
A-2785	TR-254	P-2843	26R39	A-2900	24S60	A-2937	24S59	P-2968	24R35
A-2787	TR-261	P-2844	26R40	A-2901	24S61	A-2938	24S93	P-2969	22R55
A-2789	TR-256	P-2846	21F21 §§§	A-2902	24S64	P-2939	21F92	P-2970	22R61
A-2791	TR-255	P-2847	26R42	A-2903	22S86	P-2940	21F103 (s)	C-2973	26C40

* Mounting dimensions for the Merit unit are not the same as the T-M unit. Refer to you Thordarson-Meissner catalog for the correct mounting dimensions.

** The Merit P-2867 is rated at 290-0-290V. @ 230 MADC, while the 26R91 is rated at 300-0-300V. @ 250 MADC. The 26R91 has an additional 6.3 V. @ 1.2 Amps. winding All other ratings are directly interchangeable.

¢ Minor electrical difference exists between the Merit and T-M units. See your T-M catalog for complete specifications.

¢¢ The Merit A-2820 is an Autoformer Type, while the 26S70 is a transformer type and may be connected as an autoformer.

† The Merit unit is mounted by means of a Horizontal Channel frame, while the otherwise identical T-M unit is mounted with a Vertical Channel frame.

§ The P-2944 is rated at 1 Amp. Secondary Current, while the 21F09 is rated at 1.2 Amps.

§§ The P-2945 is rated at 2 Amp Secondary Current, while the 21F10 is rated at 3 Amps.

§§§ The P-2846 is rated at .7 Amps Secondary Current, while the 21F21 is rated at .6 Amps.

Δ The Merit P-2862 is rated at 285-0-285V. @ 300 MADC, while the otherwise identical 26R43 is rated at 275-0-275V. @ 275 MADC.

ΔΔ The Merit P-2870 is rated at 270-0-270V. @ 200 MADC and 6.3V. @ 8.5 Amps, while the 26R47 is rated at 268-0-268V. @ 260 MADC and 6.3V. @ 10.5 Amps. All other ratings are directly interchangeable.

Merit H.V. Secondary is rated at 50 MADC, while the otherwise identical T-M unit is rated at 70 MADC.

■ The P-2961 has a 2,500 Volt test rating, while the otherwise identical 26F63 is rated with a 5,000 Volt test.

(a) The Merit P-2873 is rated at 270-0-270V. @ 265 MADC, while the otherwise identical 26R48 is rated at 265-0-265V. @ 228 MADC.

(b) The Merit P-2877 is rated at 6.3V. @ 10 Amps., while the 26R70 has 2—6.3V. @ 5 Amps. which may be Paralled to match the 10 Amp Rating. All other ratings are directly interchangeable.

(c) The Merit P-2842 is rated at 286-0-286V. @ 210 MADC and 6.3V. @ 8 Amps., while the 26R71 is rated at 300-0-300V. @ 230 MADC and 6.3V. @ 9 Amp. All other ratings are directly interchangeable.

(d) The Merit P-2876 is rated at 6.3 V. @ 8.5 Amps., while the otherwise identical 26R88 is rated at 6.3V. @ 5 Amp. and 6.3 V. @ 6 Amp. which may be paralled for use at 11 Amps.

(f) The Merit P-2837 is rated at 6.3V. @ 9.3 Amps., while the otherwise identical 26R89 is rated at 6.3V. @ 8 Amps. and 6.3V. @ 1.5 Amps. which may be paralled to match the 9.3 Amp Rating.

(m) The Merit unit has additional 4.8 ohm tap.

(n) T-M 24S56 has additional 2 and 8 ohm taps.

(p) T-M, 26S76 has additional Blanking Winding.

(r) The 24R19 has the 6.3 Volt winding center tapped. This winding not center tapped in the Merit P-2958.

(s) The T-M unit has additional 107 Volt tap on the primary winding.

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PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M
C-2974	26C43	A-3025	24S53 δδ	P-3072	26R23	P-3155	24R07U	P-4079	22R75
C-2975	20C47 (k)	A-3026	24S48	P-3073	26R24	P-3156	24R14	P-4082	26R105 #
C-2976	20C52	A-3027	24S44	P-3074	26F60	P-3157	21P52 *	C-4084	26C78
C-2977	26C42	A-3028	24S43	P-3077	26R71 *	P-3160	24R02U ##	HVO-3	FLY-1
C-2981	20C81	A-3029	24S95	P-3078	26R35 ‡‡	P-3161	23V81 *	HVO-5	FLY-4
A-2982	26S02	A-3030	24S97	P-3079	26R13	P-3162	23V22 *	HVO-6	FLY-3
A-2984	26S07	A-3031	24S89	A-3080	26S56	P-3163	23V23 *	HVO-7	FLY-5
C-2985	20C43	A-3032	24S51A	P-3081	26S55	P-3164	23V24	HVO-8	FLY-2
A-2986	26S07	A-3034	26S12	P-3085	23V47	P-3165	26R25U	HVO-9	FLY-24
C-2987	26C87	A-3035	24S86	P-3095	24R27	P-3166	26R26U	HVO-12	FLY-33
C-2990	26C86	A-3036	26S51	P-3096	23V17	P-3169	26R27U	HVO-13	FLY-22
C-2993	26C85	A-3037	26S52	P-3097	26F70	P-3170	26R28U	HVO-14	FLY-91
C-2994	26C41	A-3038	26S53	A-3102	22S39	P-3171	26R29U	HVO-16	FLY-30
C-2995	20C53	A-3039	26S54	A-3104	21M60A	P-3172	23V44 *	HVO-17	FLY-31
C-2996	26C93	P-3040	21F94	A-3105	21M61A	P-3173	24R18	HVO-18	FLY-47
A-2997	22S21	P-3041	26F61	A-3106	21M62A *	P-3174	26R30U	HVO-19	FLY-55
A-3000	24A87	P-3042	21F02 *	P-3117	23V90 *	P-3175	21P89 *	HVO-20	FLY-11
A-3001	26A01	P-3044	26R55	A-3123	20D30	P-3177	23V19	HVO-21	FLY-27 (g)
A-3003	26A03	P-3045	26R38	A-3129	24S77	P-3178	21P73	HVO-22	FLY-21
A-3004	26A02	P-3046	26R60	A-3130	24S18δ	C-3181	26C45 *	HVO-23	FLY-6
A-3005	22S103	P-3047	24R11	A-3131	22S71	C-3183	20C17	HVO-24	FLY-10
A-3006	26A05	P-3048	26R31 *	A-3132	22S64 *	C-3192	20C71	HVO-25	FLY-13
A-3007	21M73	P-3049	26R56	P-3135	26R59	C-3193	20C89 *	HVO-26	FLY-51
A-3008	21M68	P-3051	24R09	P-3138	23V12	C-3196	20C94	HVO-27	FLY-58
A-3010	20D28	P-3052	24R81 ‡	P-3139	23V14	P-3197	23V18	HVO-28	FLY-63
A-3011	26A06	P-3055	26R92 ††	P-3141	21F74 (u)	P-3198	23V48 *	HVO-29	FLY-62
A-3013	24S74	P-3056	26R61	P-3143	21F46 *	P-3199	23V58 *	HVO-30	FLY-63
A-3014	24S101 *	P-3057	26R57	P-3145	21F47 *	P-3202	23V33	HVO-31	FLY-12M
A-3015	24S72 *	P-3058	26R58	P-3146	21F112	A-4000	24A88	HVO-32	FLY-56
A-3016	24S02 (t)	P-3059	26R17	P-3147	24R16	A-4002	24A90	HVO-33	FLY-43
A-3017	24S28	P-3063	26R68	P-3148	26R31U	A-4003	26A04	HVO-34	FLY-45
A-3018	26S50	P-3066	26R18	P-3149	24R00U	P-4051	22R89	HVO-35	FLY-24 (g)
A-3019	26S49	P-3067	26R75	P-3150	24R01U	P-4071	22R67	HVO-36	FLY-16 (g)
A-3020	26S48	P-3068	22R69	P-3152	22R109	P-4076	22R71	HVO-37	FLY-25
A-3021	26S47	P-3069	26R20	P-3153	22R11 (s)	P-4077	22R77	HVO-38	FLY-75
A-3023	24S27	P-3070	26R21	P-3154	22R30	P-4078	22R73	HVO-39	FLY-70

* Mounting dimensions for the Merit unit are not the same as the T-M unit. Refer to your Thordarson-Meissner catalog for the correct mounting dimensions.

δ Merit A-3130 has additional 250 ohm tap.

δδ Merit A-3025 is rated at 2,500 ohms, while the T-M unit is rated at 2,000 ohms.

\# The Merit P-4082 secondary is rated at 110 Volts @ .9 Amps., while the otherwise identical 26R105 is rated at 117/110 Volts @ .9 Amps.

Merit H.V. Secondary is rated at 50 MADC, while the otherwise identical T-M unit is rated at 70 MADC.

‡ The Merit P-3052 is rated at 280-0-280V. @ 90 MADC and 6.3 V. @ 5 Amps., while the 24R81 is rated at 262.5-0-262.5V. at 90 MADC and 6.3V. CT @ 5 Amps. All other ratings are directly interchangeable.

‡‡ The Merit P-3078 is rated at 6.3V. @ 9 Amps., 6.3V. @ 1.5 Amps. and 6.3/5V. @ 2.7 Amps. while the 26R35 is rated at 2 — 6.3V. @ 4.5 Amps. (Paralled for 9 Amps), 6.3V. @ 1.6 Amps. 6.3V @ 2.5 Amps and 5V. @ 3 Amps. All other ratings are directly interchangeable.

†† The 26R92 has additional 6.3 Volt @ 1.2 Amp. winding.

(g) Merit replacement information differs from T-M recommendation. Please consult T-M replacement guide for recommended flyback replacements.

(k) The Merit C-2975 is rated at 5.5 Hy. @ 50 MADC, 330 ohms with the otherwise identical 20C47 rated at 4.5 Hy. @ 50 MADC, 300 ohms.

(s) The T-M unit has additional 107 Volt tap on the primary winding.

(t) The Merit A-3016 has additional .75 Watt tap and is mounted by means of a horizontal channel frame, while the 24S02 is mounted by means of a vertical channel frame.

(u) T-M unit has additional secondary center tap, not available on the Merit unit.

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PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M	PART NUMBER MERIT	T-M
HVO-40	FLY-125	HVO-96	FLY-49	HVO-143	FLY-181	HVO-190	FLY-239	MDF-105	Y-26
HVO-41	FLY-37 (g)	HVO-97	FLY-88	HVO-144	FLY-183	HVO-192	FLY-244	MDF-106	Y-51
HVO-42	FLY-106	HVO-98	FLY-90	HVO-145	FLY-136	HVO-193	FLY-232	MDF-107	Y-48 (g)
HVO-44	FLY-169	HVO-99	FLY-102	HVO-146	FLY-168 (g)	HVO-194	FLY-210 (g)	MDF-108	Y-54
HVO-45	FLY-73	HVO-100	FLY-112	HVO-147	FLY-184	HVO-196	FLY-217	MDF-109	Y-56
HVO-46	FLY-92	HVO-101	FLY-105	HVO-148	FLY-190	HVO-197	FLY-212 (g)	MDF-110	Y-46
HVO-47	FLY-12	HVO-102	FLY-104	HVO-149	FLY-123	HVO-198	FLY-236	MDF-111	Y-53
HVO-48	FLY-246	HVO-103	FLY-94	HVO-150	FLY-8	HVO-199	FLY-96 (g)	MDF-113	Y-47
HVO-49	FLY-39	HVO-104	FLY-107	HVO-152	FLY-137 (g)	HVO-201	FLY-174	MDF-115	Y-48
HVO-51	FLY-24W	HVO-105	FLY-117	HVO-153	FLY-201	HVO-202	FLY-175	MDF-116	Y-54
HVO-53	FLY-52	HVO-106	FLY-111	HVO-154	FLY-95	HVO-203	FLY-196	MDF-117	Y-47
HVO-54	FLY-76	HVO-107	FLY-114	HVO-155	FLY-130	HVO-205	FLY-242	MDF-118	Y-48
HVO-55	FLY-60	HVO-108	FLY-116	HVO-156	FLY-118	HVO-206	FLY-243	MDF-119	Y-50
HVO-56	FLY-158	HVO-109	FLY-118	HVO-157	FLY-119	HVO-208	FLY-250	MDF-120	Y-52
HVO-57	FLY-82	HVO-110	FLY-139	HVO-158	FLY-17	HVO-209	FLY-238	MDF-122	Y-53
HVO-58	FLY-80	HVO-112	FLY-133	HVO-159	FLY-131	MD-12	Y-3	MDF-123	Y-39
HVO-59	FLY-86	HVO-113	FLY-135	HVO-160	FLY-128	MDF-70	Y-6	MDF-124	Y-39 (g)
HVO-60	FLY-49	HVO-114	FLY-145	HVO-161	FLY-127	MDF-71	Y-8	MDF-126	Y-63
HVO-62	FLY-28	HVO-115	FLY-166	HVO-162	FLY-108	MDF-72	Y-7	MDF-128	Y-58
HVO-63	FLY-110	HVO-116	FLY-150	HVO-163	FLY-99	MDF-73	Y-10	MDF-129	Y-64
HVO-66	FLY-121	HVO-118	FLY-79	HVO-164	FLY-192	MDF-74	Y-13	MDF-134	Y-52
HVO-69	FLY-132	HVO-119	FLY-248	HVO-166	FLY-167	MDF-75	Y-18	MDF-136	Y-55
HVO-70	FLY-129	HVO-120	FLY-183	HVO-167	FLY-172	MDF-76	Y-17	MWC-1	WC-20
HVO-71	FLY-7A (g)	HVO-121	FLY-109	HVO-168	FLY-96 (g)	MDF-77	Y-4	MWC-2	WC-12
HVO-73	FLY-163	HVO-122	FLY-20	HVO-169	FLY-165	MDF-78	Y-35	MWC-3	WC-19
HVO-74	FLY-164	HVO-123	FLY-124 (g)	HVO-171	FLY-209	MDF-79	Y-36	MWC-4	WC-16
HVO-76	FLY-152	HVO-124	FLY-171	HVO-172	FLY-179	MDF-80	Y-35	MWC-5	WC-17
HVO-77	FLY-134	HVO-125	FLY-100	HVO-173	FLY-200	MDF-81	Y-40	MWC-6	WC-22
HVO-79	FLY-153	HVO-126	FLY-148	HVO-174	FLY-225	MDF-82	Y-41	MWC-7	WC-11
HVO-81	FLY-16 (g)	HVO-127	FLY-180	HVO-175	FLY-156	MDF-84	Y-27	MWC-8	WC-15
HVO-82	FLY-103	HVO-128	FLY-181	HVO-176	FLY-184	MDF-85	Y-30	MWC-10	WC-13
HVO-83	FLY-103	HVO-129	FLY-191	HVO-177	FLY-216	MDF-86	Y-31	MWC-11	WC-18
HVO-84	FLY-120	HVO-130	FLY-188	HVO-178	FLY-137	MDF-87	Y-32	MWC-12	WC-14
HVO-85	FLY-89	HVO-131	FLY-207	HVO-179	FLY-182	MDF-88	Y-10	MWC-13	WC-30 ¢
HVO-86	FLY-142	HVO-133	FLY-149	HVO-181	FLY-138	MDF-89	Y-42	MWC-16	WC-23
HVO-87	FLY-141	HVO-134	FLY-146	HVO-182	FLY-223	MDF-91	Y-14	TV-160	HS-1
HVO-88	FLY-203	HVO-135	FLY-170	HVO-183	FLY-140	MDF-92	Y-16	TV-161	HS-2
HVO-89	FLY-97	HVO-136	FLY-127	HVO-184	FLY-219	MDF-93	Y-21	TV-162	HS-3
HVO-91	FLY-68	HVO-137	FLY-213 (g)	HVO-185	FLY-176	MDF-94	Y-43	TV-163	HS-5
HVO-92	FLY-160	HVO-138	FLY-245	HVO-186	FLY-226	MDF-97	Y-45	TV-165	HS-7
HVO-93	FLY-113	HVO-140	FLY-193	HVO-187	FLY-218 (g)	MDF-99	Y-25	TV-166	HS-8
HVO-94	FLY-61	HVO-141	FLY-154	HVO-188	FLY-218 (g)	MDF-100	Y-24	TV-164	HS-10
HVO-95	FLY-115	HVO-142	FLY-185	HVO-189	FLY-210 (g)	MDF-104	Y-23		

(g) Merit replacement information differs from T-M recommendation. Please consult T-M replacement guide for recommended flyback replacements.

¢ Minor electrical difference exists between the Merit and T-M units. See your T-M catalog for complete specifications.

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JEFFERSON	THORDARSON	JEFFERSON	THORDARSON
240-201	G-301	244-761	G-314
240-211	G-303	636-101	G-342
240-701	G-302	636-111	G-343
240-711	G-304	636-121	G-344
241-101	G-318	636-131	G-345
241-111	G-319	636-141	G-346
241-121	G-320	636-151	G-347
241-131	G-321	636-161	G-348
241-141	G-322	637-201	G-326
241-151	G-323	637-221	G-327
241-161	G-324	637-231	G-328
241-171	G-325	637-261	G-329
244-221	G-305	637-271	G-330
244-231	G-307	637-291	G-331
244-241	G-309	637-531	G-336
244-251	G-311	637-551	G-337
244-261	G-313	637-561	G-338
244-401	G-315	637-571	G-339
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